

# **The Subsistence Harvest of Harbor Seal and Sea Lion by Alaska Natives in 1992**

**Technical Paper No. 229  
Part 2**

**Principal Investigator   Project Coordinator**  
**Robert J. Wolfe            Craig Mishler**

**Data Analysis** Charles J. Utermohle, Sarah Carpenter, Amy W. Paige,  
Kent Thomas **Southeast Research** Robert F. Schroeder, Martha F.  
Betts, Yvonne K. Howard, Matthew A. Kookesh, Thomas F.  
Thornton, Anne-Marie Victor **Southcentral Research** James A. Fall,  
Jeffrey Barnhart, Joseph Dinnocenzo, Rachel Mason, Susan McNeil,  
Rita Miraglia, Brad Palach, Sverre Pedersen, Jody Seitz, Ronald T.  
Stanek, Lisa A. Tomrdle, Vicki Vanek **Southwest Research** David  
Andersen, Molly Chythlook, Michael Coffing, Philippa A. Coiley,  
Terry Haynes, Lisa B. Hutchinson-Scarbrough

**Final Report for Year One**  
**Subsistence Study and Monitor System (No. 50ABNF200055)**  
**Prepared for the National Marine Fisheries Service**

**Alaska Department of Fish and Game**  
**Division of Subsistence**  
**Juneau, Alaska**  
**July 1993**

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Frontispiece. Sea lion helmet, Sitka (Tlingit). Original collected circa 1794. Reproduction by Steve Brown in 1981. Photo courtesy Sheldon Jackson Museum, Sitka, and the Alaska State Museum, Juneau (Catalog No. I.A. 130b). The sea lion is a crest of several Tlingit clans in Southeast Alaska. Its emblem is used on hats and other regalia.

## **APPENDIX C**

### **SUBSISTENCE TAKES OF HARBOR SEAL AND SEA LION BY COMMUNITY**

**The Subsistence Harvest of Harbor Seal and Seal Lion by Alaska Natives in 1992, by Robert J. Wolfe, et al, Division of Subsistence, Alaska Department of Fish and Game, Juneau, Alaska, July 1993. Final Report For Year One, Subsistence Study and Monitor System (No. 50ABNF200055), Prepared for the National Marine Fisheries Service.**



**APPENDIX C  
SUBSISTENCE TAKES OF  
HARBOR SEAL AND SEA LION  
BY COMMUNITY**

**Harbor Seal (Phoca vitulina)  
Harvest and Take Estimates, 1992**

**SOUTHEAST ALASKA**

PAGE	COMMUNITY
4-5	Angoon
8-9	Craig
12-13	Haines
16-17	Hoonah
20-21	Hydaburg
24-25	Juneau
28-29	Kake
32-33	Ketchikan
36-37	Klawock
40-41	Klukwan
44-45	Metlakatla
48-49	Pelican
52-53	Petersburg
56-57	Saxman
60-61	Sitka
64-65	Wrangell
68-69	Yakutat

**NORTH PACIFIC RIM**

PAGE	COMMUNITY
74-75	Chenega Bay
78-79	Cordova
82-83	Nanwalek
86-87	Port Graham
90-91	Seldovia
94-95	Seward
98-99	Tatitlek
102-103	Valdez

**UPPER KENAI-COOK INLET**

PAGE	COMMUNITY
108-109	Anchorage
112-113	Kenai
116-117	Tyonek

**KODIAK ISLAND**

PAGE	COMMUNITY
122-123	Akhiok
126-127	Karluk
130-131	Kodiak City
134-135	Larsen Bay
138-139	Old Harbor
142-143	Ouzinkie
146-147	Port Lions

**APPENDIX C CONTINUED  
SUBSISTENCE TAKES OF  
HARBOR SEAL AND SEA LION  
BY COMMUNITY**

**Harbor Seal (*Phoca vitulina*)  
Harvest and Take Estimates, 1992**

**SOUTH ALASKA PENINSULA**

PAGE	COMMUNITY
152-I 53	Chignik Bay
156-I 57	Chignik Lagoon
160-161	Chignik Lake
164-I 65	False Pass
168-I 69	Ivanof Bay
172-I 73	King Cove
176-I 77	Nelson Lagoon
180-181	Perryville
184-I 85	Sand Point

**ALEUTIAN-PRIBILOF ISLANDS**

PAGE	COMMUNITY
190-191	Akutan
194-I 95	Atka
198-I 99	Nikolski
202-203	St. George
206-207	St. Paul
210-211	Unalaska

**SOUTH BRISTOL BAY**

PAGE	COMMUNITY
216-217	Egegik
220-221	King Salmon
224-225	Levelock
228-229	Naknek
232-233	Pilot Point
236-237	Port Heiden
240-241	South Naknek

**NORTH BRISTOL BAY**

PAGE	COMMUNITY
248-249	Aleknagik
256-257	Clark's Point
264-265	Dillingham
272-273	Manokotak
280-281	Togiak

**LAKE ILIAMNA**

PAGE	COMMUNITY
288-289	Iliamna
292-293	Newhalen

APPENDIX C CONTINUED  
SUBSISTENCE TAKES OF  
HARBOR SEAL AND SEA LION  
BY COMMUNITY

Harbor Seal and Spotted Seal  
Harvest and Take Estimates, 1992

NORTH BRISTOL BAY

PAGE	COMMUNITY
246-247	Aleknagik
254-255	Clark's Point
262-263	Dillingham
270-27 1	Manokotak
278-279	Togiak

Spotted Seal (Phoca largha)  
Harvest and Take Estimates, 1992

NORTH BRISTOL BAY

PAGE	COMMUNITY
250-25 1	Aleknagik
258-259	Clark's Point
266-267	Dillingham
274-275	Manokotak
282-283	Togiak

Sea Lion (Eumetopias jubatus)  
Harvest and Take Estimates, 1992

SOUTHEAST ALASKA

PAGE	COMMUNITY
2-3	Angoon
6-7	Craig
10-1 1	Haines
14-15	Hoonah
18-19	Hydaburg
22-23	Juneau
26-27	Kake
30-3 1	Ketchikan
34-35	Klawock
38-39	Klukwan
42-43	Metlakatla
46-47	Pelican
50-5 1	Petersburg
54-55	Saxman
58-59	Sitka
62-63	Wrangell
66-67	Yakutat

APPENDIX C CONTINUED  
SUBSISTENCE TAKES OF  
HARBOR SEAL AND SEA LION  
BY COMMUNITY

Sea Lion (*Eumetopias jubatus*)  
Harvest and Take Estimates, 1992

**NORTH PACIFIC RIM**

PAGE	COMMUNITY
72-73	Chenega Bay
76-77	Cordova
80-81	Nanwalek
84-85	Port Graham
88-89	Seldovia
92-93	Seward
96-97	Tatitleh
100-101	Valdez

**UPPER KENAI-COOK INLET**

PAGE	COMMUNITY
106-107	Anchorage
110-111	Kenai
114-115	Tyonek

**KODIAK ISLAND**

PAGE	COMMUNITY
120-121	Akhiok
124-125	Karluk
128-129	Kodiak City
132-133	Larsen Bay
136-137	Old Harbor
140-141	Ouzinkie
144-145	Port Lions

**SOUTH ALASKA PENINSULA**

PAGE	COMMUNITY
150-151	Chignik Bay
154-155	Chignik Lagoon
158-159	Chignik Lake
162-163	False Pass
166-167	Ivanof Bay
170-171	King Cove
174-175	Nelson Lagoon
178-179	Perryville
182-183	Sand Point



APPENDIX C CONTINUED  
SUBSISTENCE TAKES OF  
HARBOR SEAL AND SEA LION  
BY COMMUNITY

Sea Lion (*Eumetopias jubatus*)  
Harvest and Take Estimates, 1992

ALEUTIAN-PRIBILOF ISLANDS

PAGE	COMMUNITY
188-1 89	Akutan
194-1 95	Atka
196-1 97	Nikolski
200-20 1	St. George
204-205	St. Paul
208-209	Unalaska

SOUTH BRISTOL BAY

PAGE	COMMUNITY
214-215	Egegik
218-219	King Salmon
222-223	Levelock
226-227	Naknek
230-23 1	Pilot Point
234-235	Port Heiden
238-239	South Naknek

NORTH BRISTOL BAY

PAGE	COMMUNITY
246-247	Aleknagik
252-253	Clark's Point
260-261	Dillingham
268-269	Manokotak
276-277	Togiak

LAKE ILIAMNA

PAGE	COMMUNITY
286-287	Iliamna
290-29 1	Newhalen



## SOUTHEAST ALASKA

**TABLE 1. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: ANGOON, 1992**

*SAMPLING DESIGN: MIXED*

	Active	Other	Total
Total Native Households	16	12	28
Surveyed Households	14	10	24
Sampling Fraction	87.5%	83.3%	85.7%
Sample Household Members	69	37	106
Estimated Household Members	78.9	44.4	123.3

*SEA LION HARVEST AND USE INFORMATION*

*Percent Of Native Households:*  
*used* 0.0%  
 Hunted 0.0%  
 Harvested 0.0%  
 Received 0.0%  
 Gave Away 0.0%

*Estimated Community Harvest and Take (Expanded):*  
 Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita 0.00

*SEA LION HARVEST BY SEASON*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%

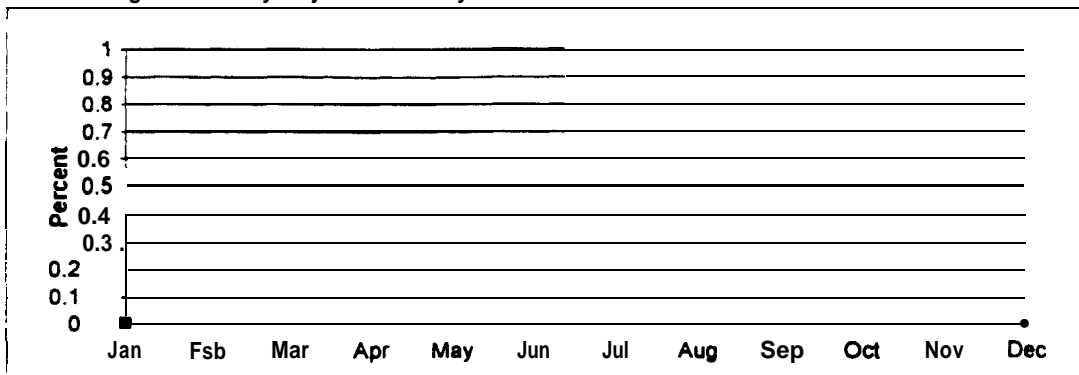
*SEA LION HARVEST BY AGE AND SEX*

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	0	...	0.0	---
Adult Female	0	...	0.0	---
Adult Unknown Sex	0	...	0.0	---
Juvenile Male	0	...	0.0	---
Juvenile Female	0	...	0.0	---
Juvenile Unknown Sex	0	...	0.0	---
Pup Male	0	...	0.0	---
Pup Female	0	...	0.0	---
Pup Unknown Sex	0	...	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	...	0.0	---
Total	0	...	0.0	---

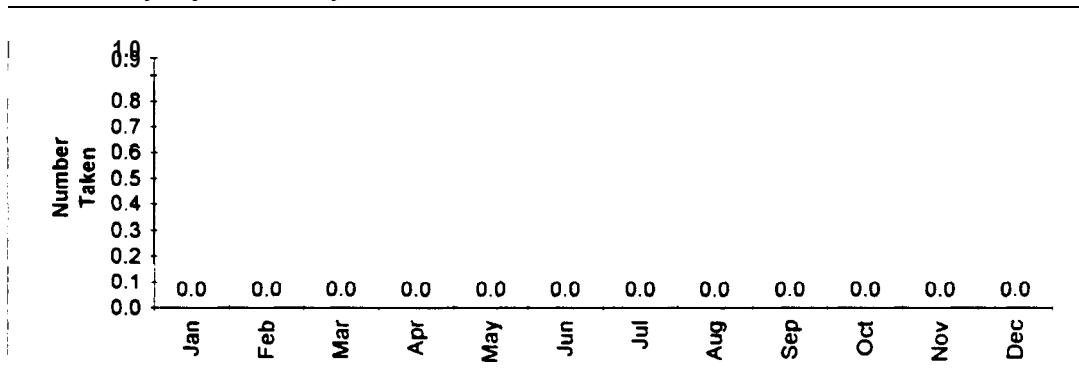
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Angoon, 1993.

FIGURE 1. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: ANGOON, 1992

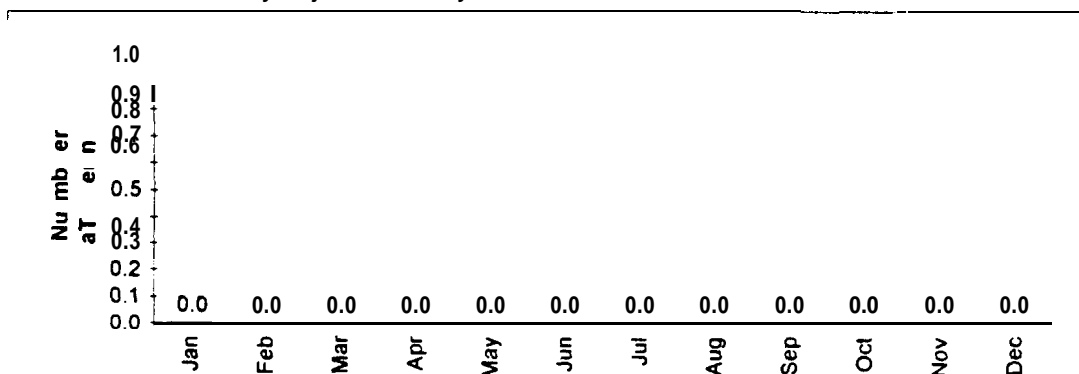
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Angoon, 1993.

TABLE 2. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: ANGOON, 1992

SAMPLING DESIGN: MIXED

	Active	Other	Total
Total Native Households	16	12	28
Surveyed Households	14	10	24
Sampling Fraction	87.5%	83.3%	85.7%
Sample Household Members	69	37	108
Estimated Household Members	78.9	44.4	123.3

HARBOR SEAL HARVEST AND **USE** INFORMATION**Percent** Of Native Households:

Used 95.8%

Hunted 95.8%

Harvested 91.7%

Received 25.0%

Gave Away 83.3%

Estimated Community **Harvest** and Take (Expanded):

Total Number Harvested 125.1

Total Number Struck and Lost 28.9

Total Number Taken 154.0

Number Harvested Per Capita 1.02

HARBOR SEAL HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	11	6	2	2	0	3	5	5	4	13	17	29	9	108	
Struck and Lost	3	1	2	3	0	2	1	2	1	3	2	3	2	25	
Total lake	14	9	4	5	0	5	6	7	5	16	19	32	11	133	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	12.6	9.1	2.3	2.3	0.0	3.6	6.0	5.9	4.6	15.0	19.6	33.6	10.3	126.1	
Struck and Lost	3.4	1.1	2.3	3.5	0.0	2.4	1.2	2.3	1.1	3.4	2.3	3.4	2.3	26.9	
Total Take	16.1	10.3	4.6	5.6	0.0	6.0	7.2	6.2	5.7	16.5	22.1	37.0	12.6	154.c	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	13.6	10.0	2.5	2.5	0.0	3.9	6.5	6.4	6.0	16.4	21.6	36.6		125.1	
Struck and Lost	3.7	1.2	2.5	3.6	0.0	2.6	1.3	2.5	1.2	3.7	2.5	3.7		26.9	
Total Take	17.5	11.2	5.0	6.3	0.0	6.5	7.0	9.0	6.2	20.1	24.1	40.3		154.0	
Total Take (X)	11.4%	7.3%	3.2%	4.1%	0.0%	4.2%	5.1%	5.6%	4.0%	13.1%	15.6%	26.2%		100%	
Cumulative Take	17.5	26.7	33.7	39.9	39.9	46.5	64.3	63.3	69.5	69.6	113.7	154.0			
Cum. Take (%)	11.4%	16.6%	21.9%	25.9%	25.9%	30.2%	35.3%	41.1%	45.1%	56.2%	73.6%	100.0%			

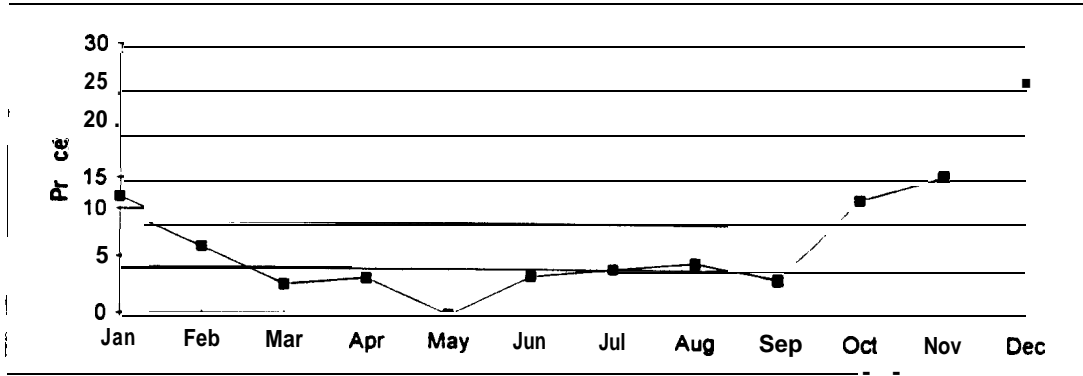
## HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	percent
	(Unexpanded)		(Expanded)	
Adult Male	43	39.8%	50.2	40.1%
Adult Female	9	8.3%	10.5	8.4%
Adult Unknown Sex	51	47.2%	58.7	46.9%
Juvenile Male	4	3.7%	4.6	3.7%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	0.9%	1.2	1.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	108	100.0%	125.1	100.0%

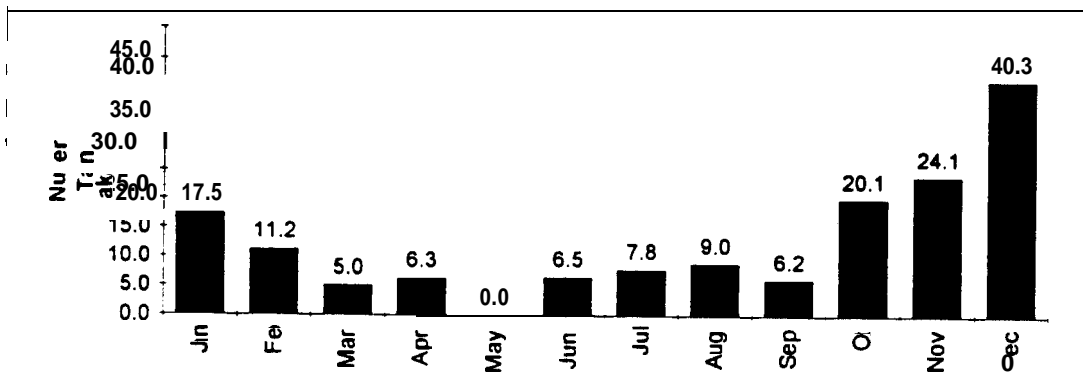
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Angoon, 1993.

FIGURE 2. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: ANGOON, 1992

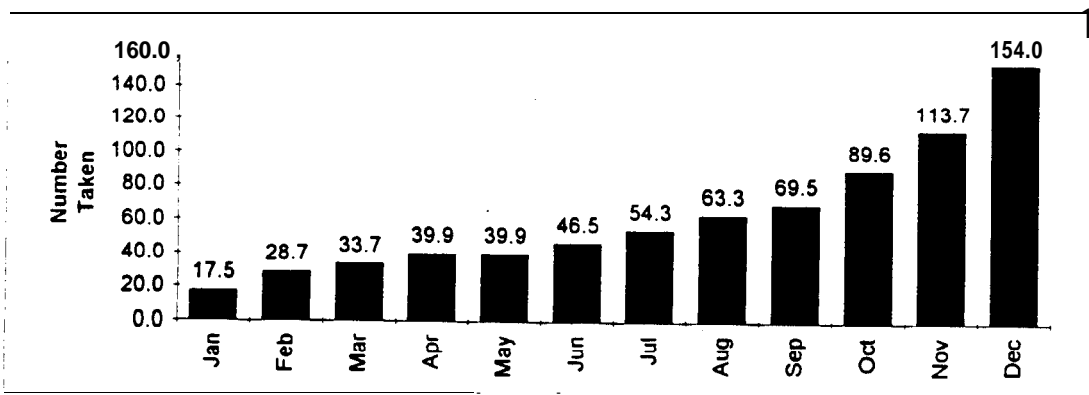
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Angoon, 1993.

**TABLE 3. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: CRAIG, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households 29  
 Surveyed Households 2 5  
 Sampling Fraction 86.2%  
 Sample Household Members 100  
 Estimated Household Members 116.0

**SEA LION HARVEST AND USE INFORMATION**

Percent Of **Sample** Households:  
 used 0.0%

Hunted 0.0%  
 Harvested 0.0%  
 Received 0.0%  
 Gave Away 0.0%

Estimated Community **Harvest and Take (Expanded):**

Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita N/A

SEA LION HARVEST BY SEASON												Unknown		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	--	---	---	---	---	---	---		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take(%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

**SEA LION HARVEST BY AGE AND SEX**

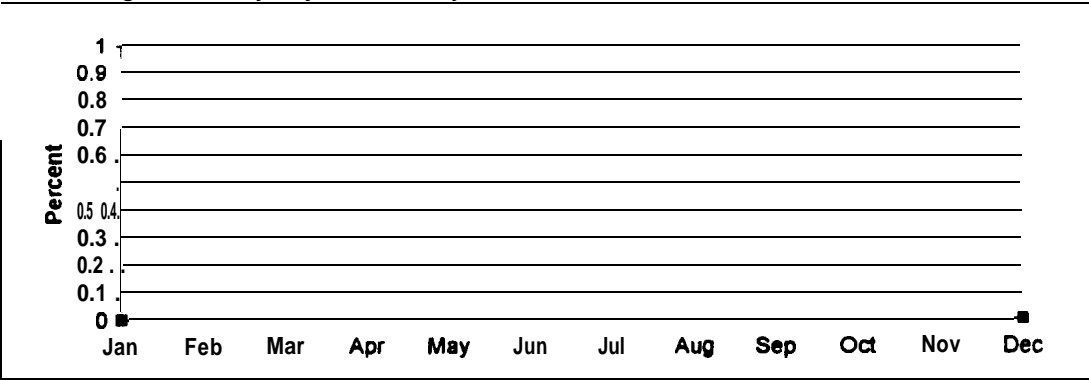
	Reported		Estimated	
	By Sample Percent		By Community Petwnt	
	(Unexpanded)		(Expanded)	
Adult Male	0	--	0.0	---
Adult Female	0	--	0.0	---
Adult Unknown Sex	0	I -	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	--	0.0	--
Female Unknown Age	0	--	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Craig and Shaan-Seet, Inc., 1993.

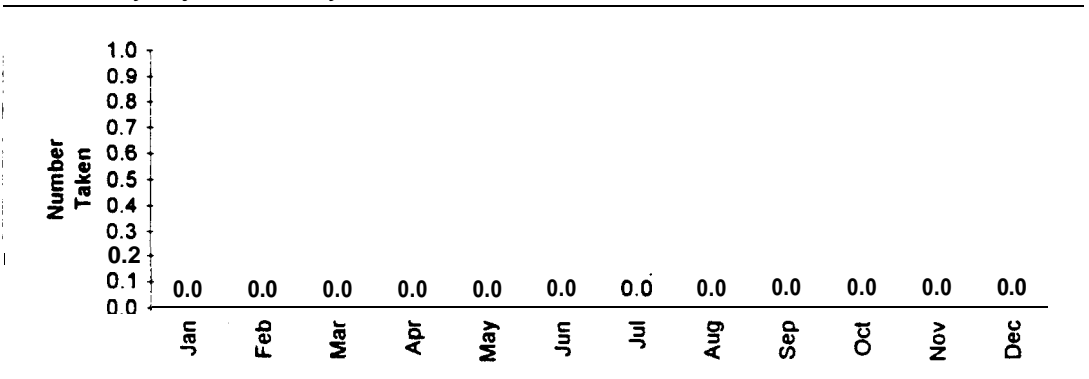


FIGURE 3. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: CRAIG, 1992

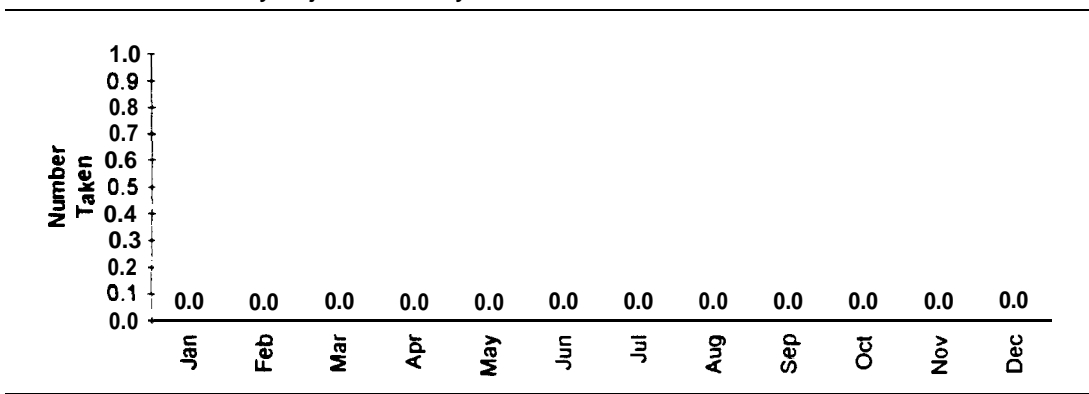
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Craig and Shaan-Seet, Inc., 1993.

TABLE 4. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CRAIG, 1992

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 29  
 Surveyed Households 25  
 Sampling Fraction 86.2%  
 Sample Household Members 100  
 Estimated Household Members 1160

## HARBOR SEAL HARVEST AND USE INFORMATION

**Percent Of Sample Households:**  
 Used 80.0%  
 Hunted 76.0%  
 Harvested 68.0%  
 Received 44.0%  
 Gave Away 60.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 74.2  
 Total Number Struck and Lost 0.0  
 Total Number Taken 74.2  
 Number Harvested Per Capita N/A

HARBOR SEAL HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	3	2	8	4	10	3	2	0	5	11	6	6	4	64	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	3	2	8	4	10	3	2	0	5	11	6	6	4	64	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	3.5	2.3	9.3	4.6	11.6	3.5	2.3	0.0	5.6	12.6	7.0	7.0	4.6	74.2	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	3.5	2.3	9.3	4.6	11.6	3.5	2.3	0.0	5.6	12.6	7.0	7.0	4.6	74.2	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	3.7	2.5	9.9	4.9	12.4	3.7	2.5	0.0	6.2	13.6	7.4	7.4		74.2	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take	3.7	2.5	9.9	4.9	12.4	3.7	2.5	0.0	6.2	13.6	7.4	7.4		74.2	
Total Take (%)	5.0%	3.3%	13.3%	6.7%	16.7%	5.0%	3.3%	0.0%	6.3%	16.3%	10.0%	10.0%		100%	
Cumulative Take	3.7	6.2	16.1	21.0	33.4	37.1	39.6	39.6	45.6	59.4	66.6	74.2			
Cum. Take (%)	5.0%	6.3%	21.7%	26.3%	45.0%	50.0%	53.3%	53.3%	61.7%	60.0%	90.0%	100.0%			

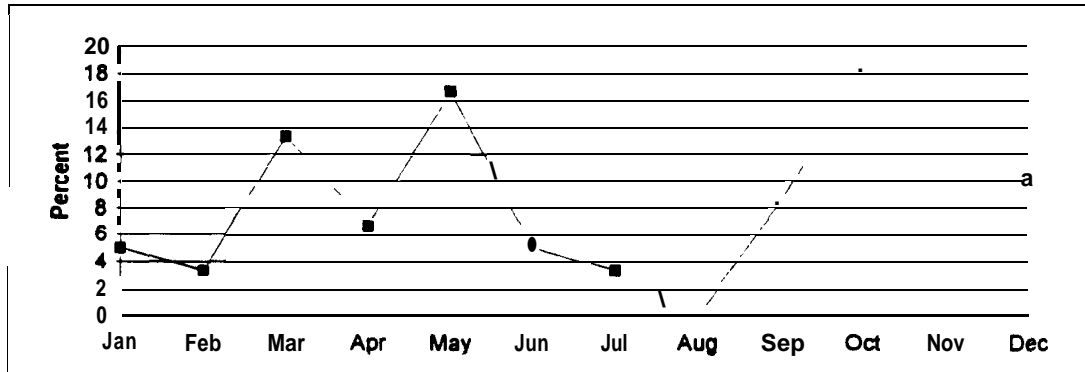
## HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	25	39.1%	29.0	39.1%
Adult Female	25	39.1%	29.0	39.1%
Adult Unknown Sex	8	12.5%	9.3	12.5%
Juvenile Male	1	1.6%	1.2	1.6%
Juvenile Female	1	1.6%	1.2	1.6%
Juvenile Unknown Sex	3	4.7%	3.5	4.7%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	1.6%	1.2	1.6%
Total	64	100.0%	74.2	100.0%

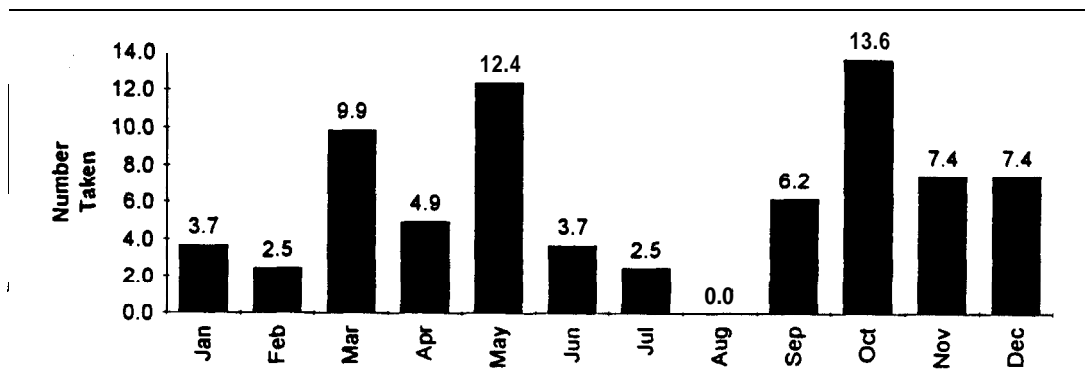
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Craig and Sean-Set, Inc., 1993.

FIGURE 4. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CRAIG, 1992

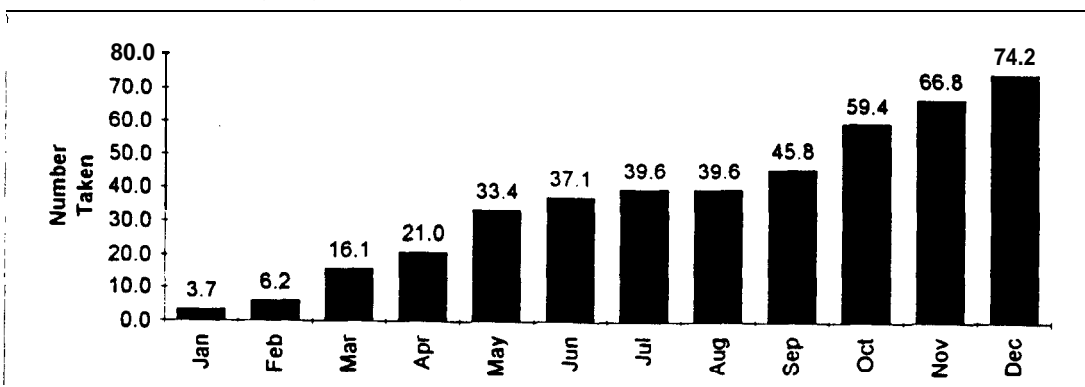
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Craig and Shaan-Seet, 1993

**TABLE 5. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: HAINES, 1992**

SAMPLING DESIGN: **CHAIN** REFERRAL

Total Sample Households	26
Surveyed Households	23
Sampling Fraction	88.5%
Sample Household Members	85
Estimated Household Members	W3.1

SEA LION HARVEST AND USE INFORMATION

Percent Of **Sample** Households:

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

**Estimated** Community **Harvest** and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	N/A

SEA LION HARVEST BY SEASON

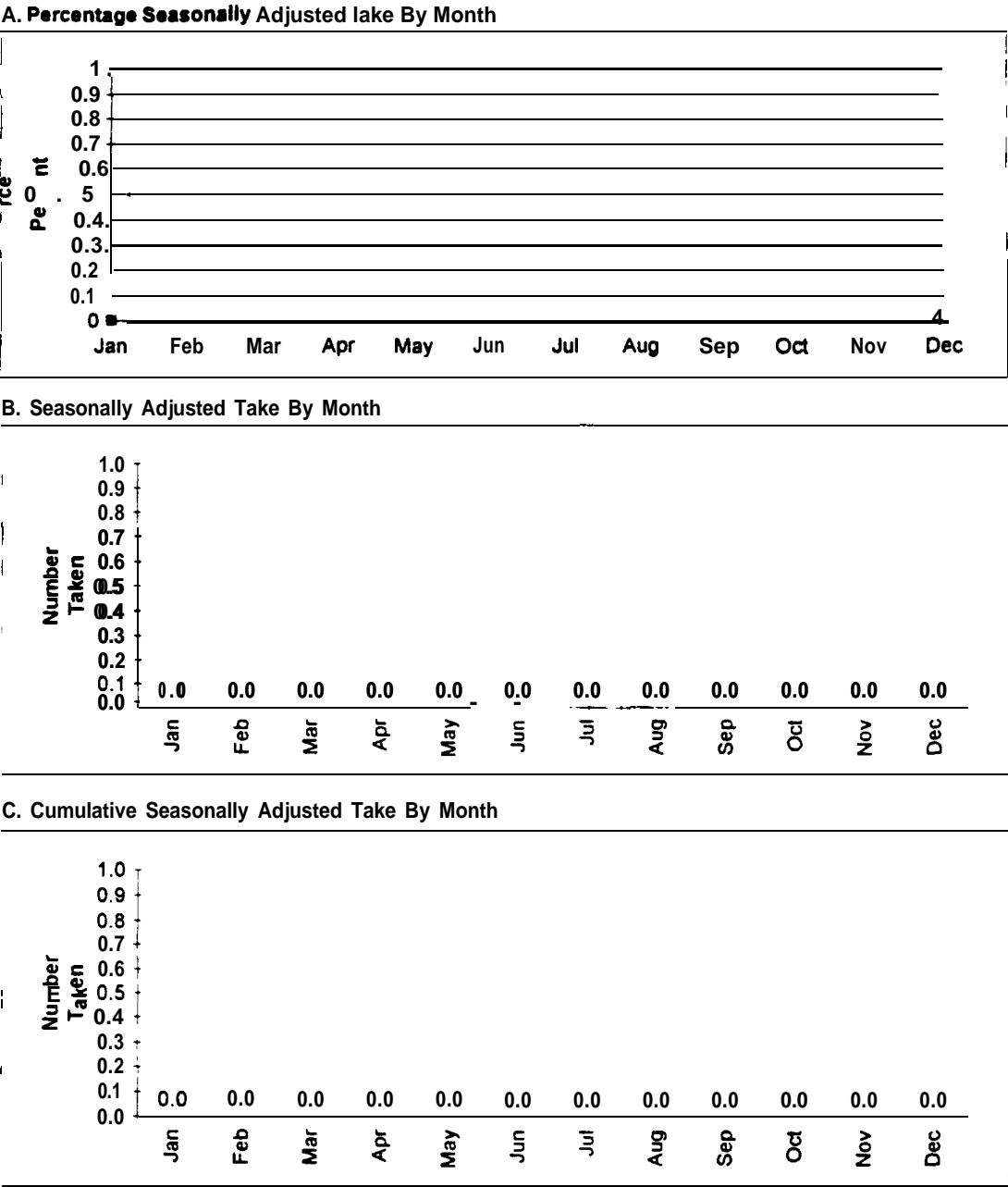
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assistance from the Chilkat Indian Association. 1993

FIGURE 5. SEA LION(*Eumetopias jubatus*) TAKE ESTIMATES: HAINES, 1992



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Association, 1993

**TABLE 6. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: HAINES, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households	26
Surveyed Households	23
Sampling Fraction	68.5%
Sample Household Members	85
Estimated Household Members	96.1

*HARBOR SEAL HARVEST AND USE INFORMATION*

*Percent Of Sample Households:*

Used 78.3%  
Hunted 47.6%  
Harvested 43.5%  
Received 43.5%  
Gave Away 52.2%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 30.5  
Total Number Struck and Lost 7.9  
Total Number Taken 38.4  
Number Harvested Per Capita N/A

HARBOR SEAL HARVEST <i>BY</i> SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE <i>BY</i> SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	5	10	4	1	0	0	0	0	0	0	1	6	0	27
Struck and Lost	1	1	2	0	0	0	0	0	0	0	1	2	0	7
Total Take	6	11	6	1	0	0	0	0	0	0	2	8	0	34
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.7	11.3	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.8	0.0	30.5
Struck and Lost	1.1	1.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	0.0	7.9
Total Take	6.6	12.4	6.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	2.3	9.0	0.0	36.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.7	11.3	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.6		30.5
Struck and Lost	1.1	1.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3		7.9
Total Take	6.8	12.4	6.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	2.3	9.0		36.4
Total Take(%)	17.6%	32.4%	17.6%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	23.5%		100%
Cumulative Take	6.6	19.2	26.0	27.1	27.1	27.1	27.1	27.1	27.1	27.1	29.4	36.4		
Cum. Take(%)	17.6%	50.0%	67.6%	70.6%	70.6%	70.6%	70.6%	70.6%	70.6%	70.6%	76.5%	100.0%		

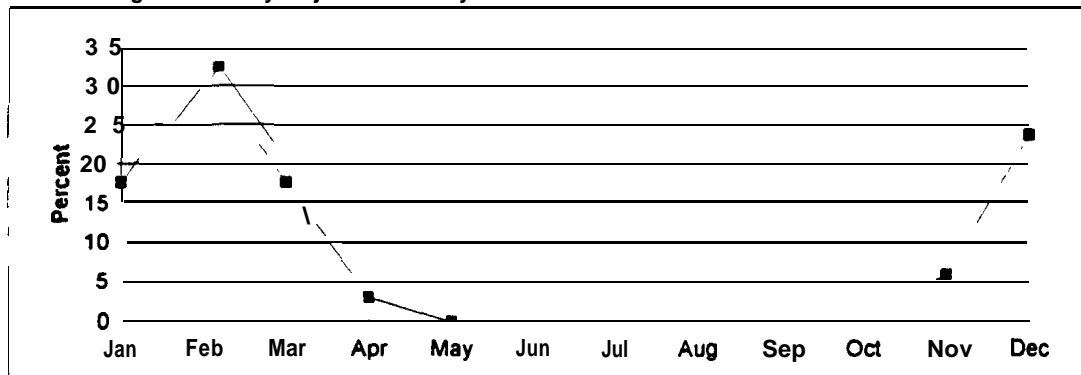
*HARBOR SEAL HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	33.3%	10.2	33.3%
Adult Female	6	22.2%	6.8	22.2%
Adult Unknown Sex	11	40.7%	12.4	40.7%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	3.7%	1.1	3.7%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	27	100.0%	30.5	100.0%

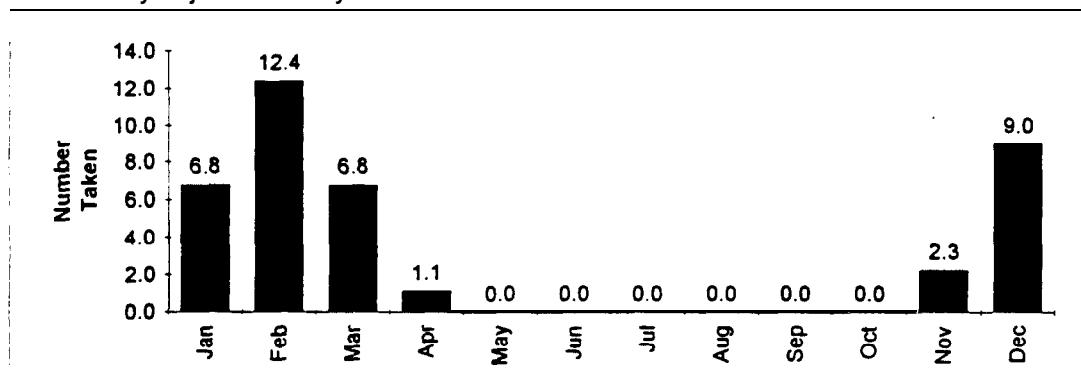
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Association, 1993.

FIGURE 6. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: HAINES, 1992

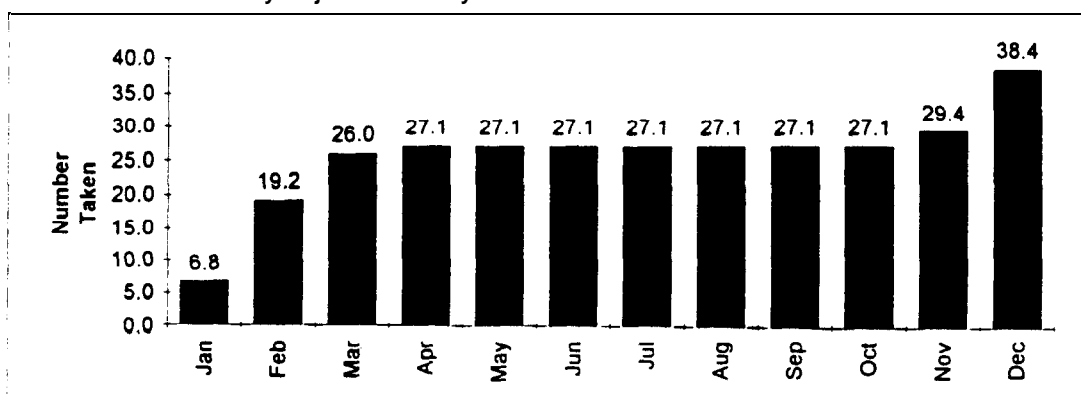
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Association. 1993.

TABLE 7. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: HOONAH, 1992SAMPLING DESIGN: **MIXED**

	Active	Other	Total
Total Native Households	60	4	64
Surveyed Households	46	4	50
Sampling Fraction	76.7%	100.0%	78.1%
Sample Household Members	190	16	206
Estimated Household Members	247.8	16.0	263.6

## SEA LION HARVEST AND USE INFORMATION

Percent Of **Native Households:**

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

## SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

## SEA LION HARVEST BY AGE AND SEX

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	--
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	--
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

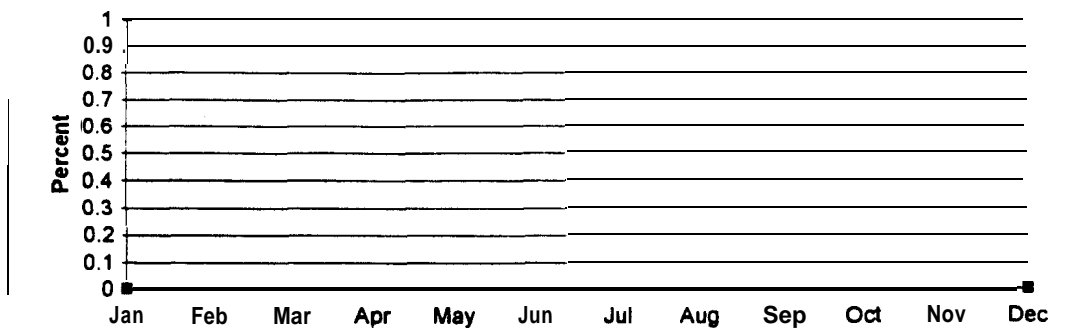
SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Hoonah Traditional Council, 1993.

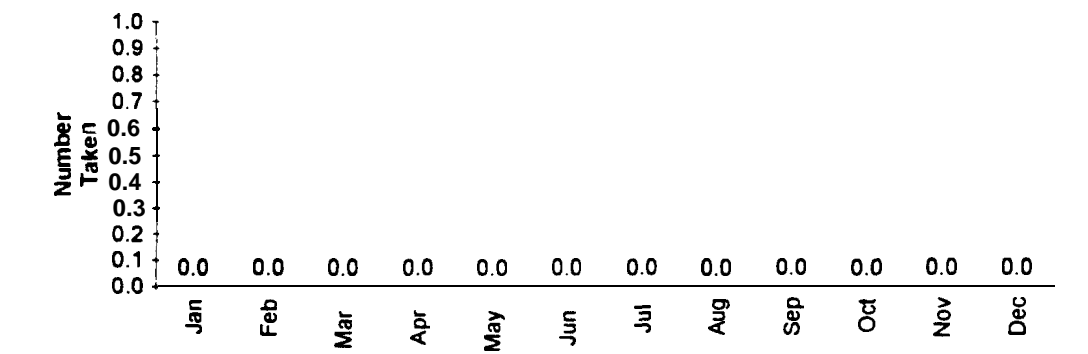


FIGURE 7. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: HOONAH, 1992

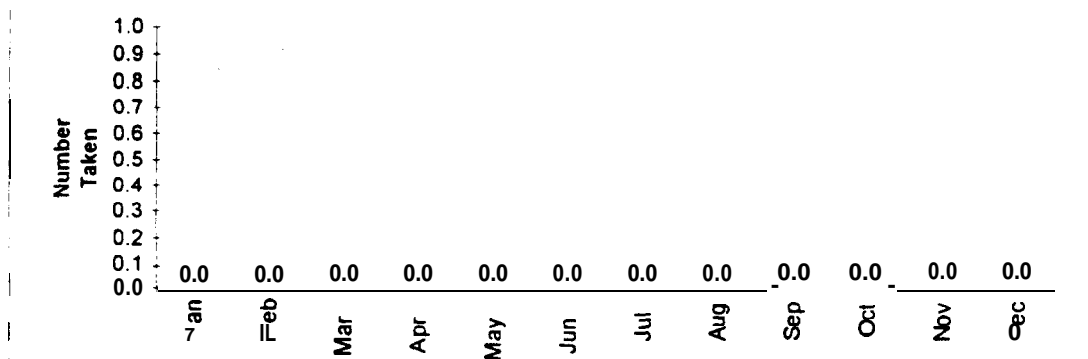
A. Percent Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Hoonah Traditional Council, 1993.

TABLE 8. HARBOR SEAL (*Phocavitulina*) HARVEST AND TAKE ESTIMATES: HOONAH, 1992SAMPLING DESIGN: *MIXED*

	Active	Other	Total
Total Native Households	60	4	64
Surveyed Households	46	4	50
Sampling Fraction	76.7%	100.0%	78.1%
Sample Household Members	190	16	206
Estimated Household Members	247.8	16.0	263.6

## HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of **Native** Households:  
 used 98.0%  
 Hunted 76.0%  
 Harvested 68.0%  
 Received 68.0%  
 Gave Away 66.0%

**Estimated Community Harvest and Take (Expanded):**  
 Total Number Harvested 350.2  
 Total Number Struck and Lost 24.6  
 Total Number Taken 375.0  
 Number Harvested Per Capita 1.33

HARBOR SEAL HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	20	11	21	7	9	2	8	1	40	55	46	24	26	272	
Struck and Lost	2	0	4	0	2	2	1	1	0	2	4		0	19	
Total Take	22	11	25	7	11	4	9	2	40	57	50	25	26	291	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	26.1	13.4	26.5	9.1	11.7	2.6	10.4	1.3	51.9	71.1	59.7	29.8	36.5	350.2	
Struck and Lost	2.6	0.0	5.2	0.0	2.6	2.6	1.3	1.3	0.0	2.6	5.2	1.3	0.0	24.6	
Total Take	26.7	13.4	31.7	9.1	14.3	5.2	11.7	2.6	51.9	73.7	64.9	31.1	36.5	375.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	29.1	15.0	29.6	10.2	13.1	2.9	11.6	1.5	57.9	79.4	66.6	33.3		350.2	
Struck and Lost	2.6	0.0	5.2	0.0	2.6	2.6	1.3	1.3	0.0	2.6	5.2	1.3		24.6	
Total Take	31.7	15.0	34.6	10.2	15.7	5.5	13.0	2.6	57.9	82.0	71.9	34.6		375.0	
Total Take (%)	6.5%	4.0%	9.3%	2.7%	4.2%	1.5%	3.5%	0.7%	15.4%	21.9%	19.2%	9.2%		100%	
Cumulative Take	31.7	46.7	61.5	91.7	107.4	112.9	125.9	126.7	166.6	266.6	340.4	375.0			
Cum. Take (%)	0.5%	12.5%	21.7%	24.5%	26.6%	30.1%	33.6%	34.3%	49.7%	71.6%	90.6%	100.0%			

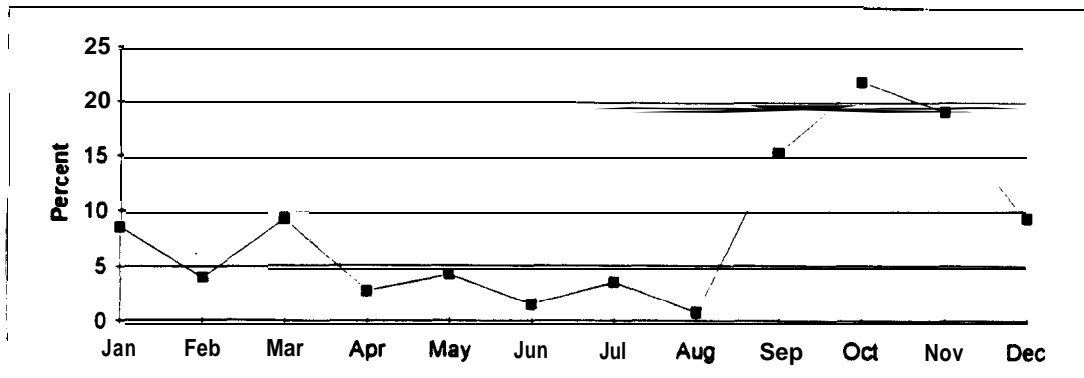
## HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	118	43.4%	152.1	43.4%
Adult Female	61	22.4%	77.7	22.2%
Adult Unknown Sex	48	17.6%	61.7	17.6%
Juvenile Male	5	1.8%	6.5	1.9%
Juvenile Female	7	2.6%	9.1	2.6%
Juvenile Unknown Sex	2	0.7%	2.6	0.7%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	0.4%	1.3	0.4%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	30	11.0%	39.1	11.2%
Total	272	100.0%	350.2	100.0%

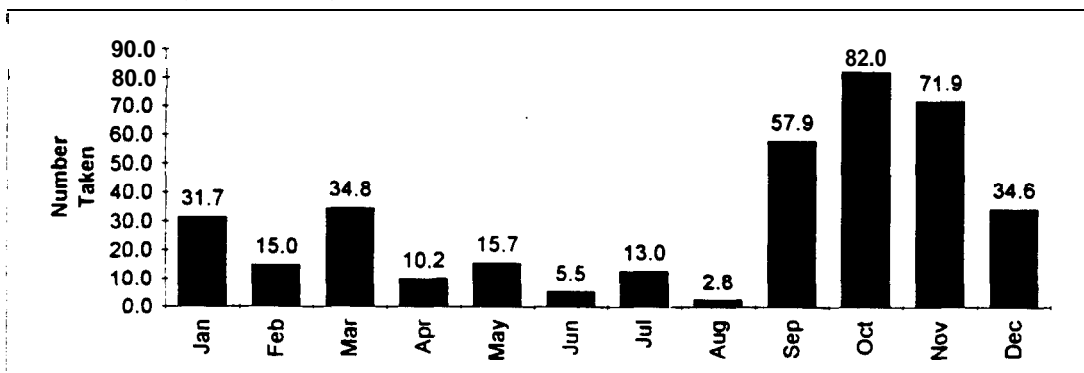
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Hoonah Traditional Council, 1993.

FIGURE 8. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: HOONAH, 1992

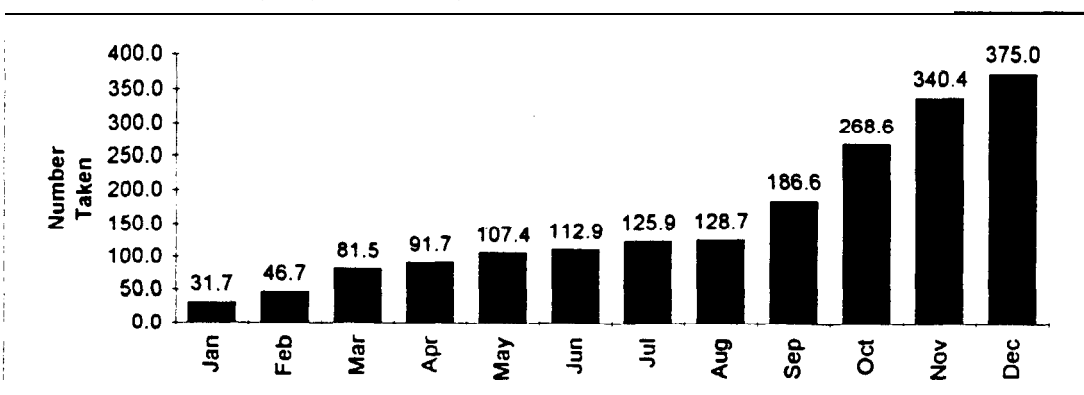
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Hoonah Traditional Council, 1993.

**TABLE 9. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: HYDABURG, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households	15
Surveyed Households	14
Sampling Fraction	93.3%
Sample Household Members	53
Estimated Household Members	58.8

*SEA LION HARVEST AND USE INFORMATION*

**Percent Of Sample Households:**

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	N/A

*SEA LION HARVEST BY SEASON*

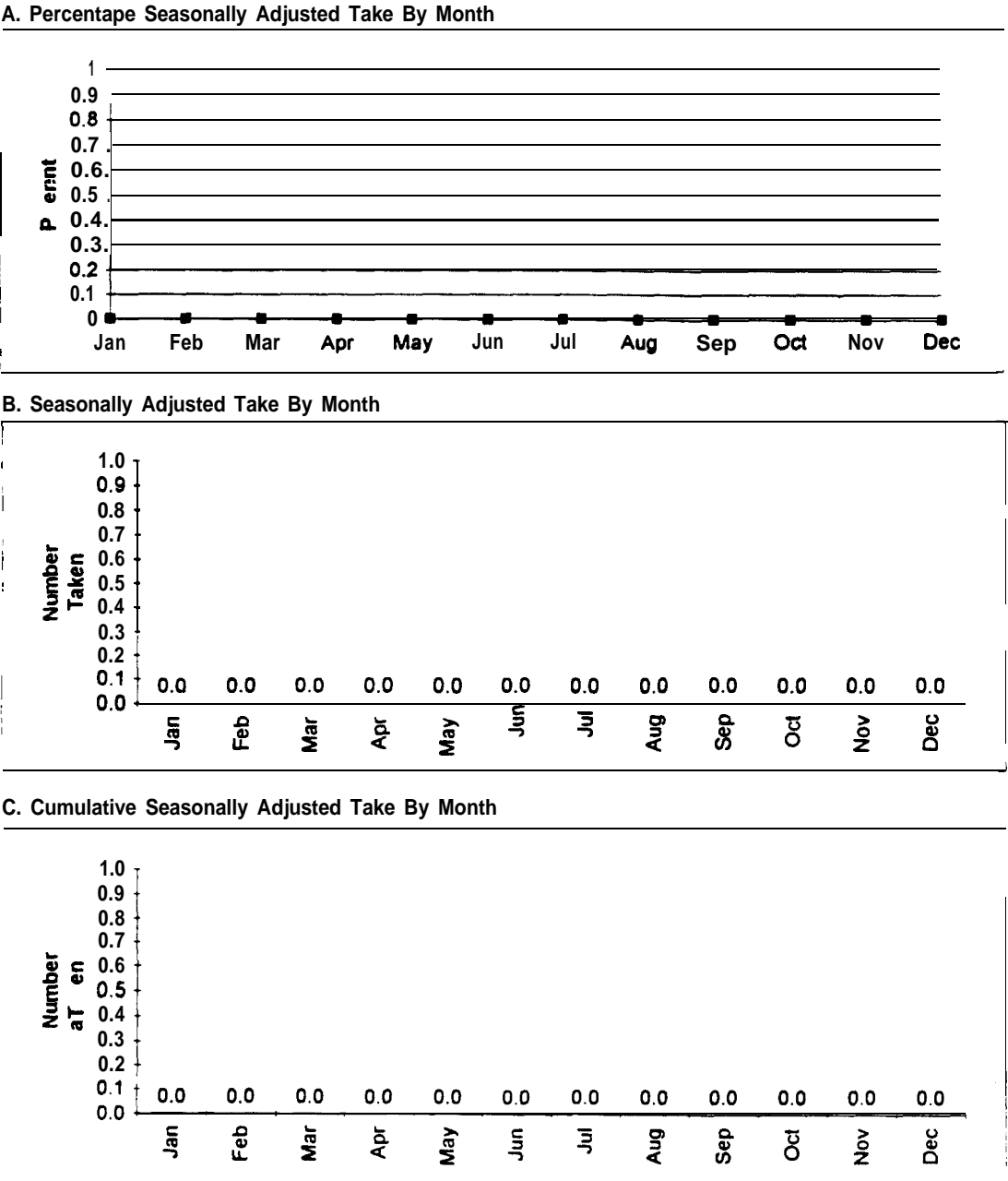
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

*SEA LION HARVEST BY AGE AND SEX*

	Reported By Sample (Unexpanded)	Percent	Estimated By Community Expanded)	Percent
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hyaburg and Haida Corporation, 1993.

FIGURE 9. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: HYDABURG, 1992



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hyaburg and Haida Corporation, 1993.

**TABLE 10. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: HYDABURG, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households	15
Surveyed Households	14
Sampling Fraction	93.3%
Sample Household Members	53
Estimated Household Members	56.6

*HARBOR SEAL HARVEST AND USE INFORMATION*

Percent Of Sample Households:  
 Used 21.4%  
 Hunted 26.6%  
 Harvested 21.4%  
 Received 21.4%  
 Gave Away 21.4%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested	30.0
Total Number Struck and Lost	2.1
Total Number Taken	32.1
Number Harvested Per Capita	N/A

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	0	0	0	0	0	0	0	1	3	7	10	5	28
Struck and Lost	0	0	0	0	0	0	0	0	0	0	1	1	0	2
Total Take	2	0	0	0	0	0	0	0	1	3	6	11	5	30
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	7.5	10.7	5.4	30.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	2.1
Total Take	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	6.6	11.6	5.4	32.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	9.1	13.0		30.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1		2.1
Total Take	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	10.2	14.1		32.1
Total Take (%)	6.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.1%	12.2%	31.7%	43.9%		100%
Cumulative Take	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	7.6	16.0	32.1		
Cum. Take(%)	6.1%	6.1%	8.1%	6.1%	6.1%	6.1%	6.1%	6.1%	12.2%	24.3%	56.1%	100.0%		

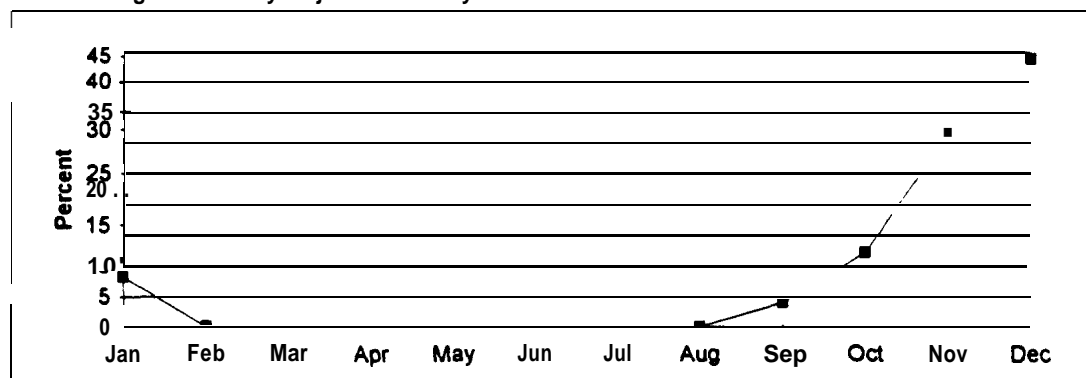
*HARBOR SEAL HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	7	25.0%	7.5	25.0%
Adult Female	2	7.1%	2.1	7.1%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	1	3.6%	1.1	3.6%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	18	64.3%	19.3	64.3%
Total	28	100.0%	30.0	100.0%

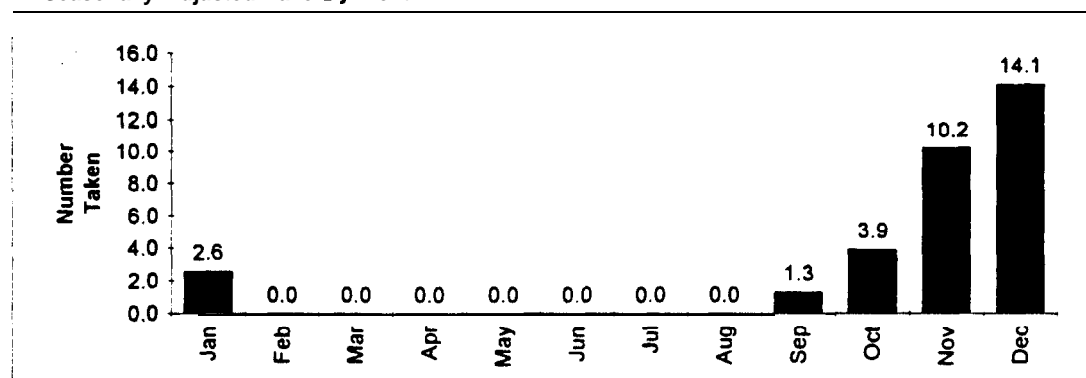
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hyدابurg and Haida Corporation, 1993

FIGURE 10. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: HYDABURG, 1992

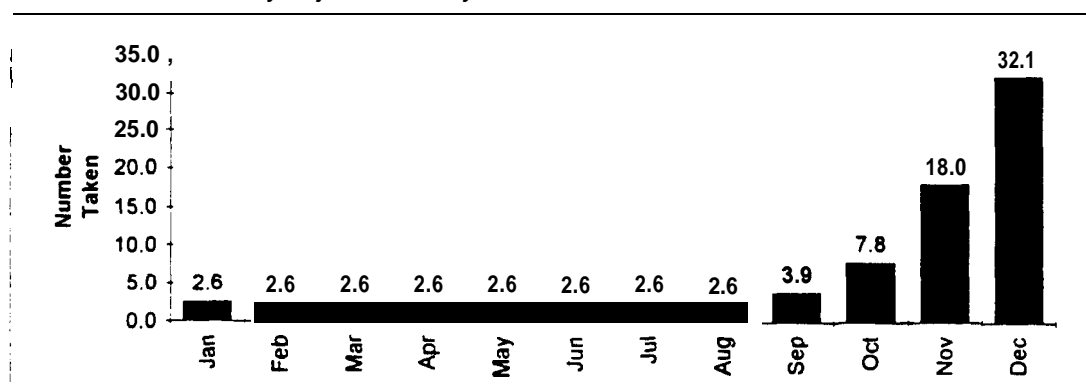
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hydaburg and Haida Corporation, 1993.

TABLE 11. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: JUNEAU, 1992

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 110  
 Surveyed Households 87  
 Sampling Fraction 79.1%  
 Sample Household Members 330  
 Estimated Household Members 417.2

## SEA LION HARVEST AND USE INFORMATION

Percent Of **Sample** Households:

Used 0.0%  
 Hunted 0.0%  
 Harvested 0.0%  
 Received 0.0%  
 Gave Away 0.0%

Estimated Community **Harvest and Take (Expanded):**

Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita N/A

## SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Unknown Dec Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)													
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)													
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)													
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

## SEA LION HARVEST BY AGE AND SEX

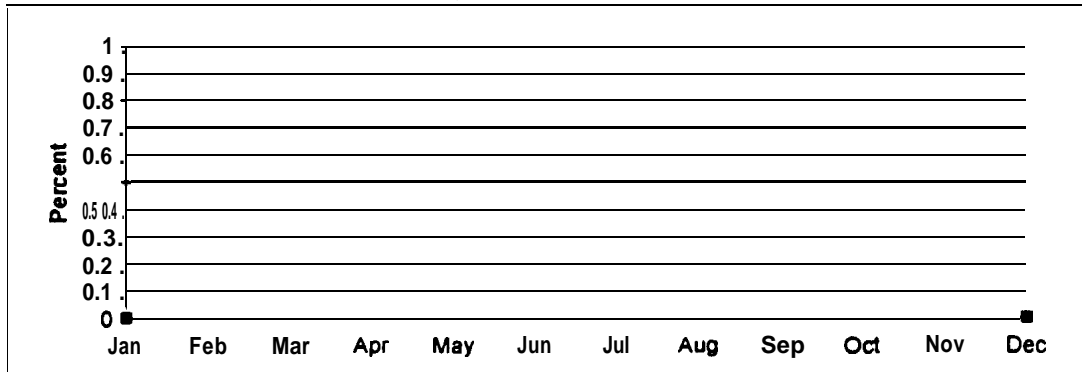
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	--	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	--	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	--
Total	0	--	0.0	---

SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tlingit and Haida Central Council, Sealaska, Auke Tribe Council, and ANB/ANS, 1993.

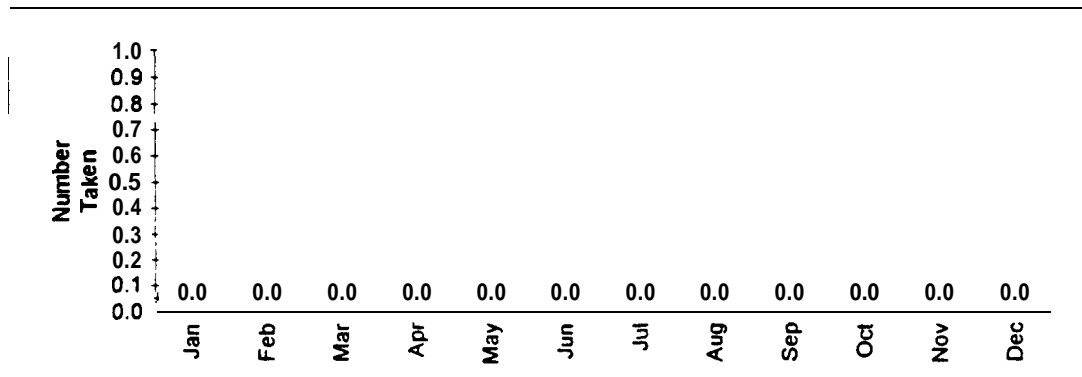


FIGURE 11. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: JUNEAU, 1992

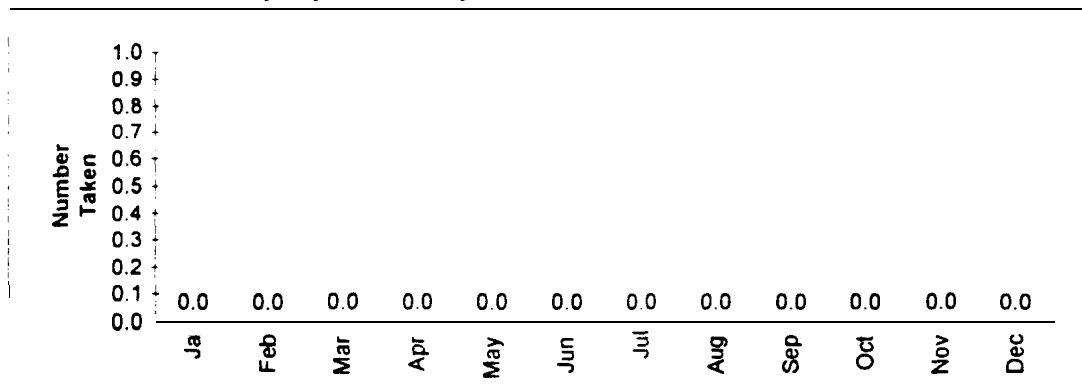
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tlingit and Haida Central Council, Sealaska, Aleutian Council, and ANB/ANS, 1993.

TABLE 12. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: JUNEAU, 1992**SAMPLING DESIGN: CHAIN REFERRAL**

Total Sample Households 110  
 Surveyed Households 87  
 Sampling Fraction 79.1%  
 Sample Household Members 330  
 Estimated Household Members 417.2

**HARBOR SEAL HARVEST AND USE INFORMATION***Percent Of Sample Households:*

Used 92.0%  
 Hunted 42.5%  
 Harvested 31.0%  
 Received 80.5%  
 Gave Away 52.9%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 122.6  
 Total Number Struck and Lost 7.6  
 Total Number Taken 130.2  
 Number Harvested Per Capita N/A

HARBOR SEAL HARVEST BY SEASON													Unknown		Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month			
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	4	3	16	6	3	0	2	10	11	15	13	14	0	97	
Struck and Lost	1	1	1	0	0	0	0	0	1	0	1	1	0	6	
Total Take	5	4	17	6	3	0	2	10	12	15	14	15	0	103	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	5.1	3.6	20.2	7.6	3.8	0.0	2.5	12.6	13.9	19.0	16.4	17.7	0.0	122.6	
Struck and Lost	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	1.3	0.0	7.6	
Total Take	6.3	5.1	21.5	7.6	3.8	0.0	2.5	12.6	15.2	19.0	17.7	19.0	0.0	130.2	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	5.1	3.8	20.2	7.6	3.6	0.0	2.5	12.6	13.9	19.0	16.4	17.7		122.6	
Struck and Lost	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	1.3		7.6	
Total Take	6.3	5.1	21.5	7.6	3.0	0.0	2.5	12.6	15.2	19.0	17.7	19.0		130.2	
Total Take (%)	4.9%	3.9%	16.5%	5.6%	2.9%	0.0%	1.9%	9.7%	11.7%	14.6%	13.6%	14.6%		100%	
Cumulative Take	6.3	11.4	32.9	40.5	44.3	44.3	46.8	59.4	74.6	93.6	111.3	130.2			
Cum. Take (%)	4.9%	6.7%	25.2%	31.1%	34.0%	34.0%	35.9%	45.6%	57.3%	71.8%	85.4%	100.0%			

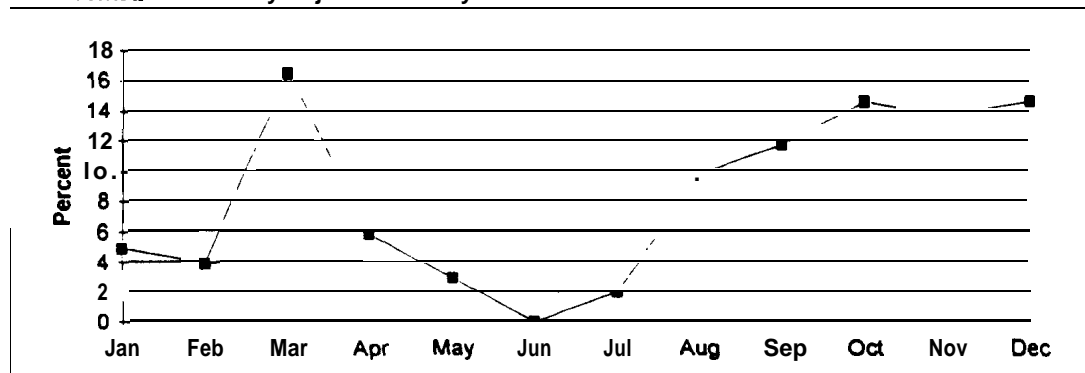
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	39	40.2%	49.3	40.2%
Adult Female	16	16.5%	20.2	16.5%
Adult Unknown Sex	26	26.8%	32.9	26.8%
Juvenile Male	6	6.2%	7.6	6.2%
Juvenile Female	3	3.1%	3.8	3.1%
Juvenile Unknown Sex	7	7.2%	8.9	7.2%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	97	100.0%	122.6	100.0%

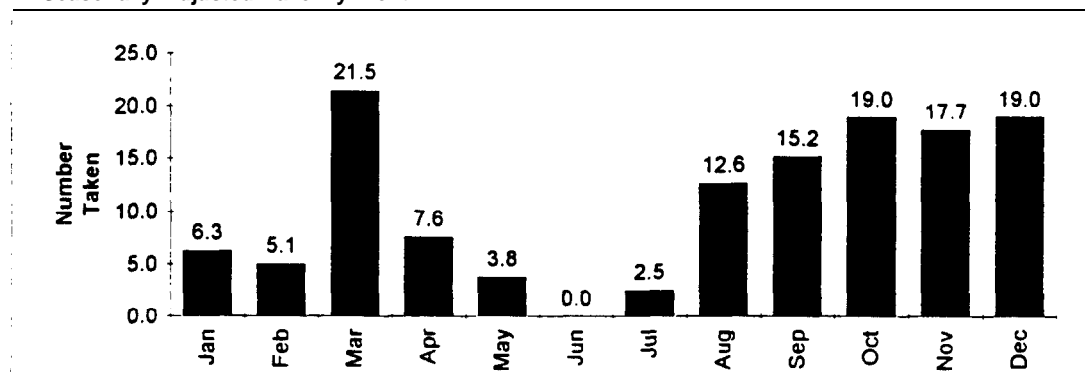
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tlingit and Haida Central Council, Sealaska, Auke Tribe Council, and ANB/ANS, 1993.

FIGURE 12. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: JUNEAU, 1992

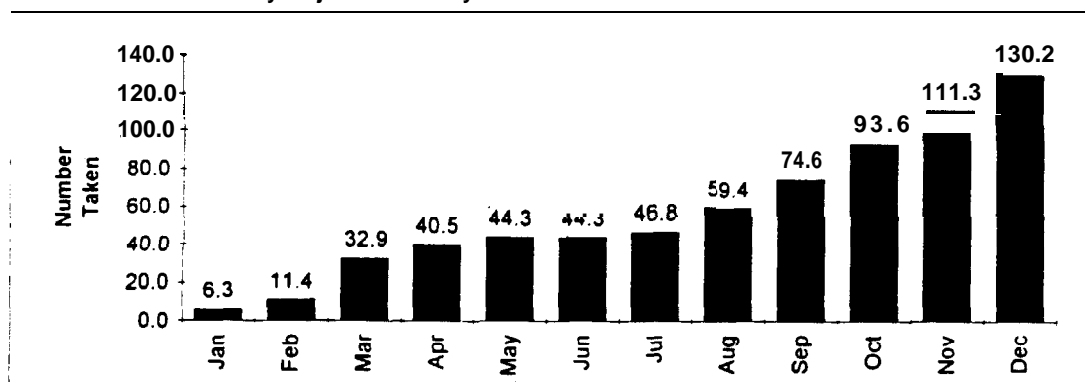
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitoring System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tlingit and Haida Central Council, Sealaska, Aleutian Council, and ANB/ANS, IQQ3

**TABLE 13. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KAKE, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households    88  
 Surveyed Households    61  
 Sampling Fraction    89.7%  
 Sample Household Members    252  
 Estimated Household Members    280.9

**SEA LION HARVEST AND USE INFORMATION**

**Percent Of Sample Households:**  
*used 0.0%*  
 Hunted    0.0%  
 Harvested    0.0%  
 Received    0.0%  
 Gave Away    0.0%

**Estimated Community Harvest and Take (Expanded):**  
 Total Number Harvested    0.0  
 Total Number Struck and Lost    0.0  
 Total Number Taken    0.0  
 Number Harvested Per Capita    N/A

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (WPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

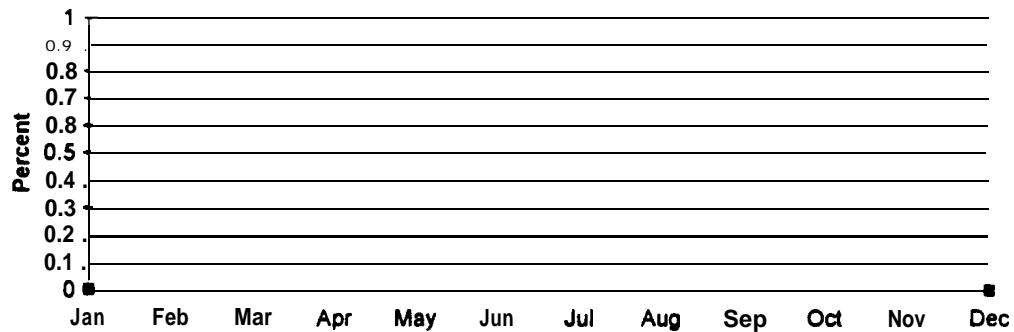
**SEA LION HARVEST BY AGE AND SEX**

	Reported	Percent	Estimated	Percent
	By Sample (Unexpanded)		By Community (Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

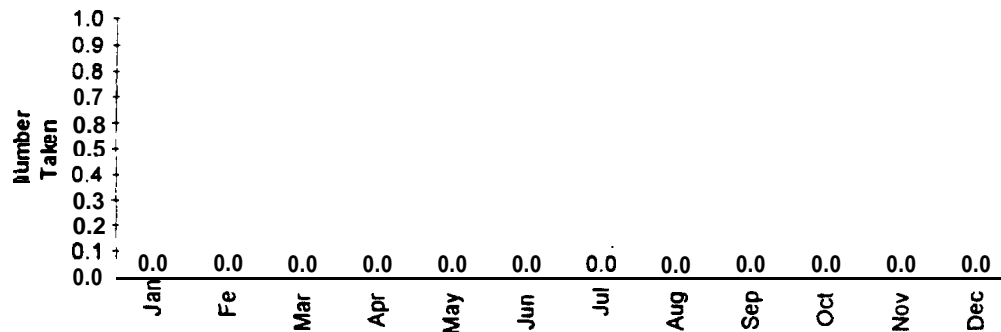
SOURCE. Alaska Department of Fish and Game. Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Kake and City of Kake, 1993

FIGURE 13. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KAKE, 1992

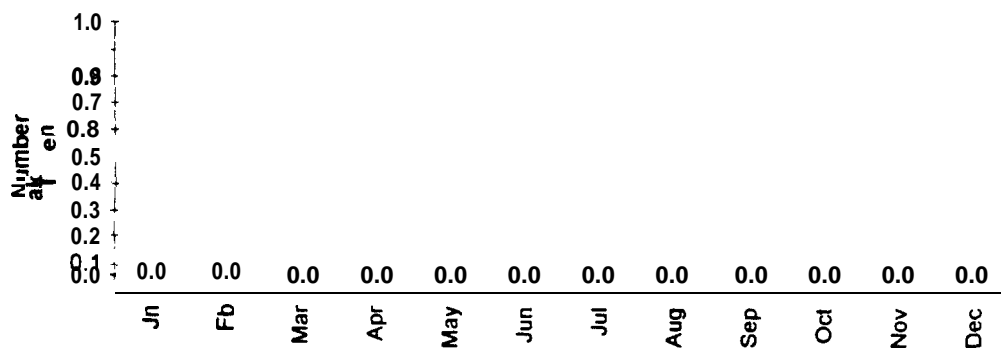
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Kake and City of Kake, 1993.

**TABLE 14. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KAKE, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households 68  
 Surveyed Households 61  
 Sampling Fraction 89.7%  
 Sample Household Members 252  
 Estimated Household Members 280.9

**HARBOR SEAL HARVEST AND USE INFORMATION**

Percent Of Sample Households:  
 Used 90.2%  
 Hunted 55.7%  
 Harvested 50.8%  
 Received 59.0%  
 Gave Away 62.3%

Estimated Community Harvest and Take (Expanded):  
 Total Number Harvested 173.9  
 Total Number Struck and Lost 12.3  
 Total Number Taken 186.2  
 Number Harvested Per Capita N/A

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	10	15	25	3	8	2	14	13	15	19	20	12	0	156
Struck and Lost	0	0	0	0	0	0	5	0	0	0	0	0	6	11
Total Take	10	15	25	3	8	2	19	13	15	19	20	12	6	167
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	11.1	16.7	27.9	3.3	8.9	2.2	15.6	14.5	16.7	21.2	22.3	13.4	0.0	173.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	6.7	12.3
Total Take	11.1	16.7	27.9	3.3	8.9	2.2	21.2	14.5	16.7	21.2	22.3	13.4	6.7	166.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	11.1	16.7	27.9	3.3	8.9	2.2	15.6	14.5	16.7	21.2	22.3	13.4		173.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	12.3	0.0	0.0	0.0	0.0	0.0		12.3
Total Take	11.1	16.7	27.9	3.3	8.9	2.2	27.9	14.5	16.7	21.2	22.3	13.4		166.2
Total Take (%)	6.0%	9.0%	15.0%	1.0%	4.0%	12%	15.0%	7.6%	9.0%	11.4%	12.0%	7.2%		100%
Cumulative Take	11.1	27.9	55.7	59	1	68.0	70.2	98.1	112.6	129.3	150.5	172.6	166.2	
Cum. Take (a)	6.0%	15.0%	29.9%	31.7%	365%	37.7%	52.7%	60.5%	69.5%	80.8%	92.6%	100.0%		

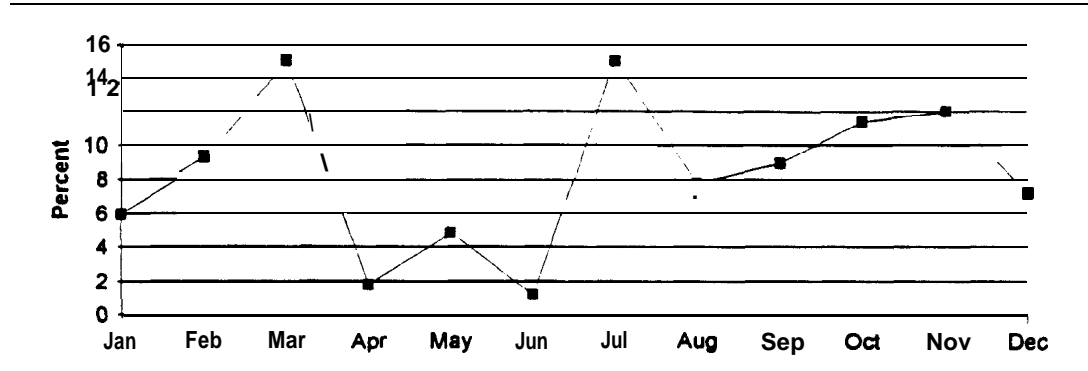
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	77	49.4%	85.8	49.4%
Adult Female	8	5.1%	6.9	5.1%
Adult Unknown Sex	20	12.8%	22.3	12.8%
Juvenile Male	13	8.3%	14.5	8.3%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	1.3%	2.2	1.3%
Pup Male	1	0.6%	1.1	0.6%
Pup Female	1	0.6%	1.1	0.6%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	34	21.8%	37.9	21.8%
Total	156	100.0%	173.9	100.0%

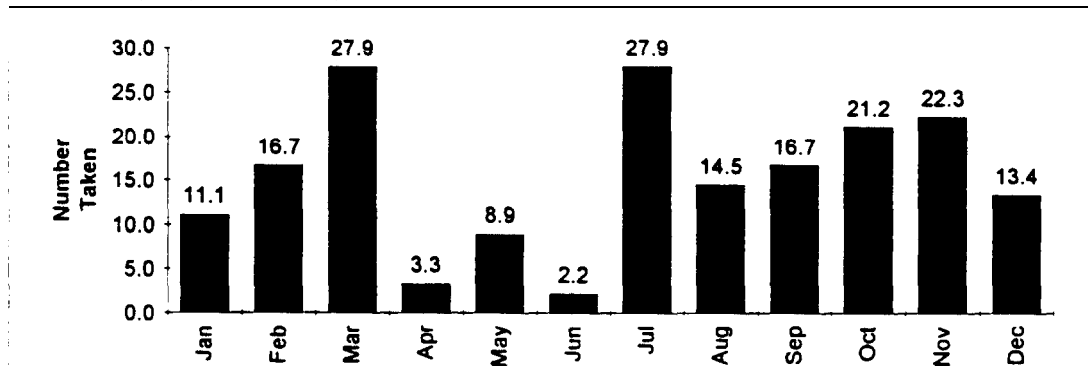
SOURCE: Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assistance from the Organized Village of Kake and City of Kake. 1993

FIGURE 14. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KAKE, 1992

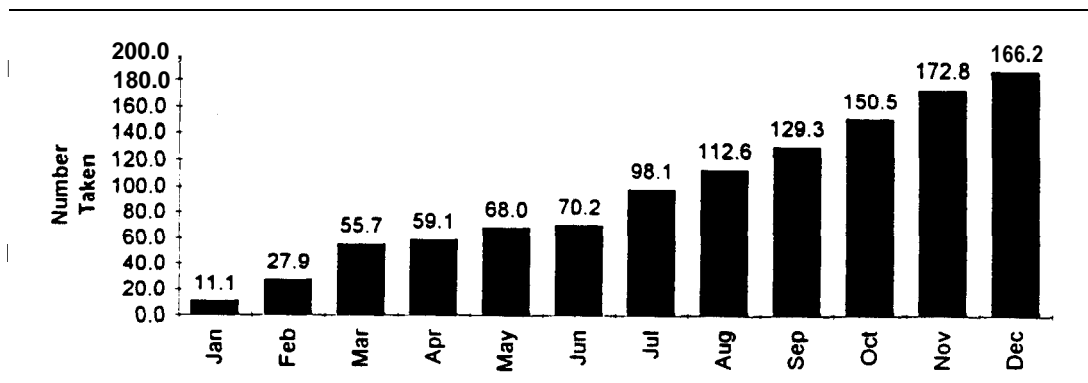
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Kake and City of Kake, 1993.

**TABLE 15. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KETCHIKAN, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households	17
Surveyed Households	13
Sampling Fraction	76.5%
Sample Household Members	42
Estimated Household Members	54.9

**SEA LION HARVEST AND USE INFORMATION**

*Percent Of Sample Households:*

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	N/A

SEA LION HARVEST BY SEASON												Unknown		Total
	Jan	Feb	Mar	Apr	Mey	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck end Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TotalTake	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---				---		---	---		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

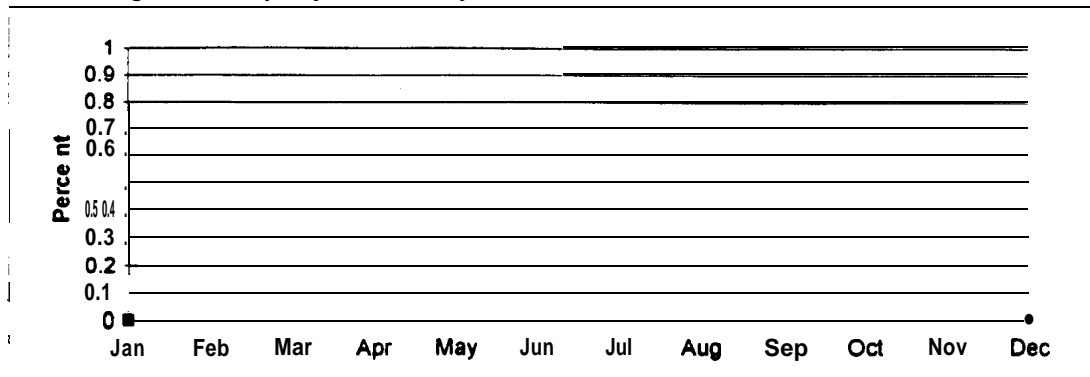
**SOURCE:**

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitoring System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ketchikan IRA Council and Ketchikan Indian Corporation, 1993.

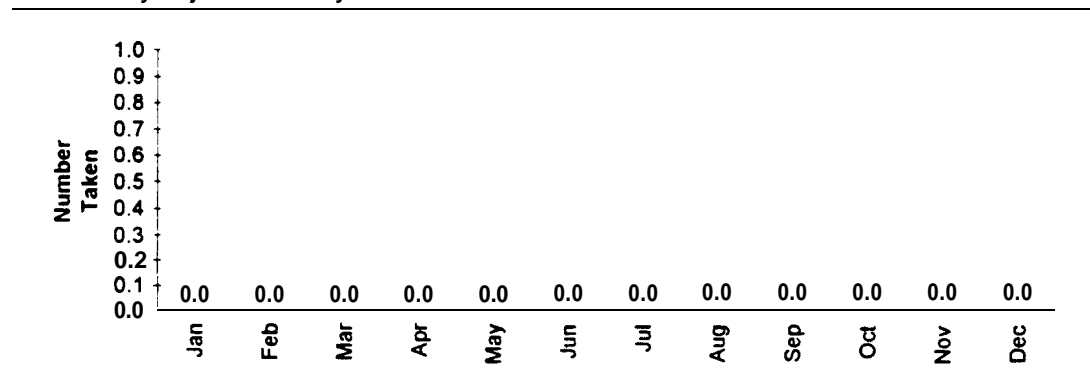


FIGURE 15. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KETCHIKAN, 1992

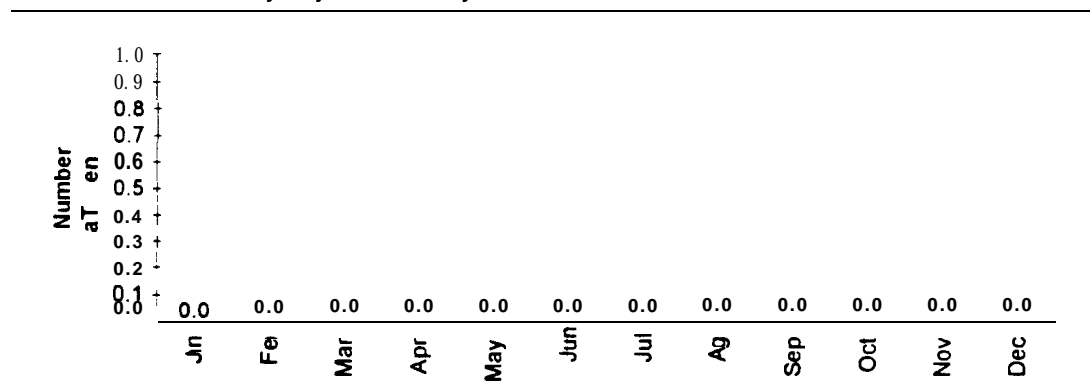
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ketchikan IRA Council and Ketchikan Indian Corporation, 1993

**TABLE 16. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KETCHIKAN, 1992**

SAMPLING DESIGN: **CHAIN REFERRAL**

Total Sample Households 17  
 Surveyed Households 13  
 Sampling Fraction 76.5%  
 Sample Household Members 42  
 Estimated Household Members 54.9

**HARBOR SEAL HARVEST AND USE INFORMATION**

Per-cent Of **Sample** Households:

Used 84.6%  
 Hunted 30.8%  
 Harvested 30.8%  
 Received 53.8%  
 Gave Away 38.5%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 90.2  
 Total Number Struck and Lost 6.5  
 Total Number Taken 96.8  
 Number Harvested Per Capita N/A

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	14	15	9	12	3	0	1	3	1	2	1	0	0	69
Struck and Lost	1	1	1	2	0	0	0	0	0	0	0	0	0	5
Total Take	15	16	10	14	3	0	1	3	1	2	1	8	0	74
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	18.3	19.6	11.0	15.7	3.9	0.0	1.3	3.9	1.3	2.6	1.3	10.5	0.0	90.2
Struck and Lost	1.3	1.3	1.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5
Total Take	19.6	20.9	13.1	18.3	3.9	0.0	1.3	3.9	1.3	2.6	1.3	10.5	0.0	96.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	10.3	19.6	11.0	15.7	3.9	0.0	1.3	3.9	1.3	2.6	1.3	10.5		90.2
Struck and Lost	1.3	1.3	1.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		6.5
Total Take	19.6	20.9	13.1	18.3	3.9	0.0	1.3	3.9	1.3	2.6	1.3	10.5		96.8
Total Take (%)	20.3%	21.6%	13.5%	18.9%	4.1%	0.0%	1.4%	4.1%	1.4%	2.7%	1.4%	10.0%		100%
Cumulative Take	19.6	40.5	53.6	71.9	75.0	75.0	77.2	81.1	82.4	85.0	86.3	96.8		
Cum. Take (%)	20.3%	41.9%	55.4%	74.3%	79.4%	79.4%	79.7%	83.8%	85.1%	87.0%	89.2%	100.0%		

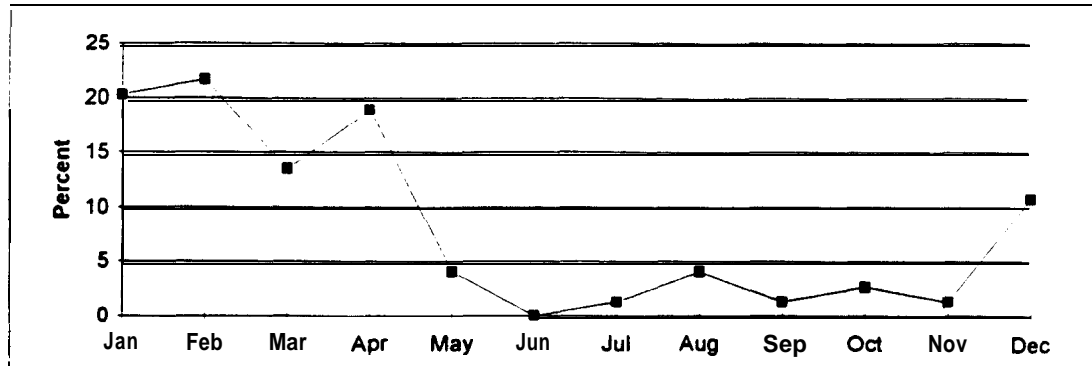
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	34	49.3%	44.5	49.3%
Adult Female	32	46.4%	41.8	46.4%
Adult Unknown Sex	1	1.4%	1.3	1.4%
Juvenile Male	1	1.4%	1.3	1.4%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	1	1.4%	1.3	1.4%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	69	100.0%	90.2	100.0%

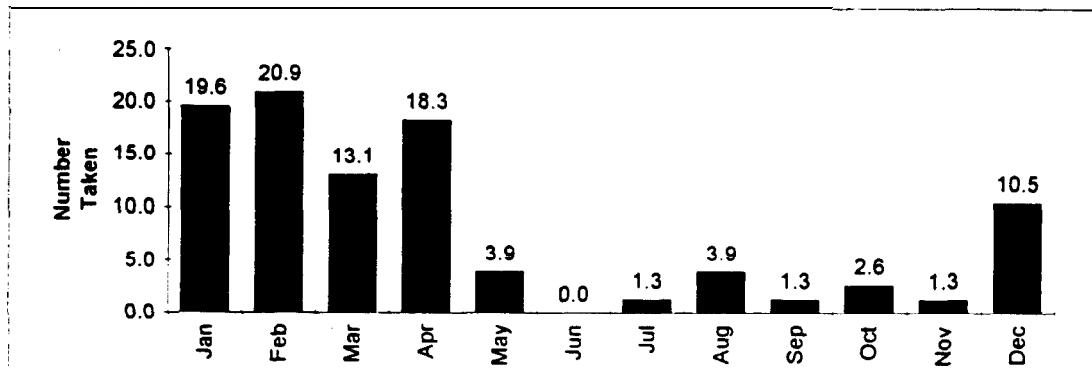
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ketchikan IRA Council and Ketchikan Indian Corporation, 1993.

FIGURE 16. HARBOR SEAL (*Phocavitulina*) TAKE ESTIMATES: KETCHIKAN, 1992

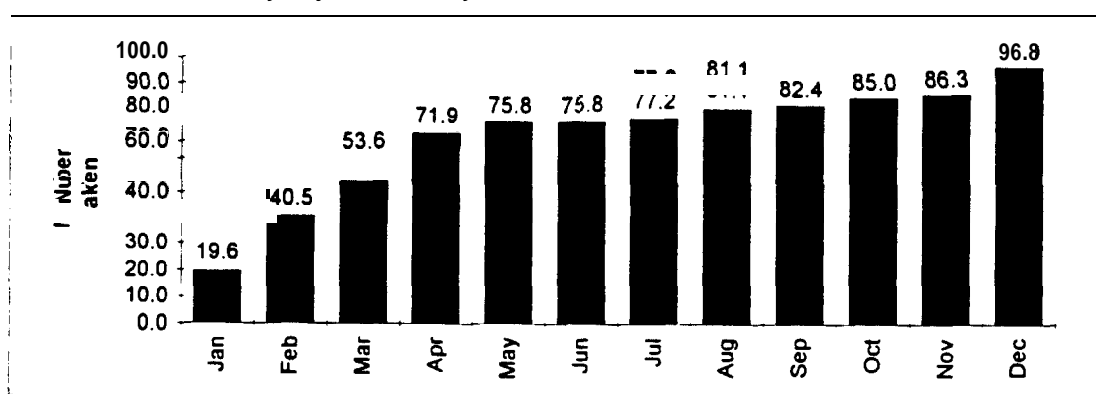
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ketchikan IRA Council and Ketchikan Indian Corporation, 1993.

**TABLE 17. SEA LION (*Eumetopirs jubatus*) HARVEST AND TAKE ESTIMATES: KLAWOCK, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households	32
Surveyed Households	23
Sampling Fraction	71.9%
Sample Household Members	78
Estimated Household Members	108.5

*SEA LION HARVEST AND USE INFORMATION*

**Percent Of Sample Households:**

used	4.3%
Hunted	4.3%
Harvested	4.3%
Received	0.0%
Gave Away	0.0%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	1.4
Total Number Struck and Lost	0.0
Total Number Taken	1.4
Number Harvested Per Capita	N/A

SEA LION HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.4	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.4	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%	
Cumulative Take	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4			
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			

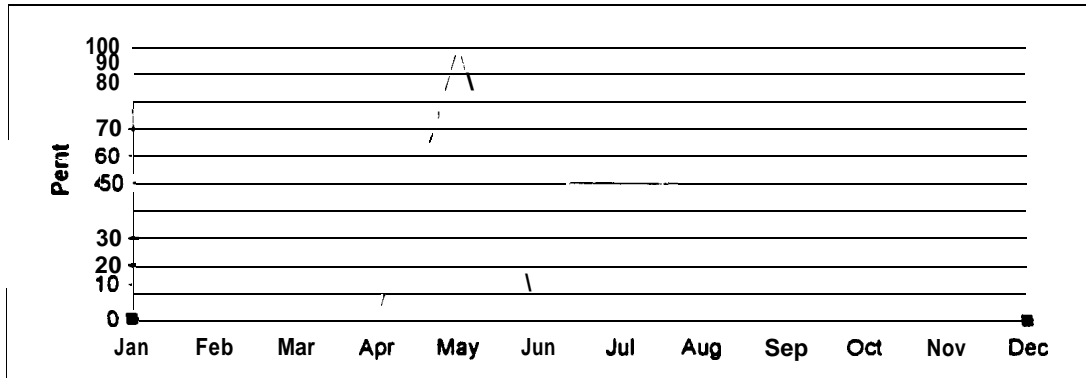
*SEA LION HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	100.0%	1.4	100.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	1	100.0%	1.4	100.0%

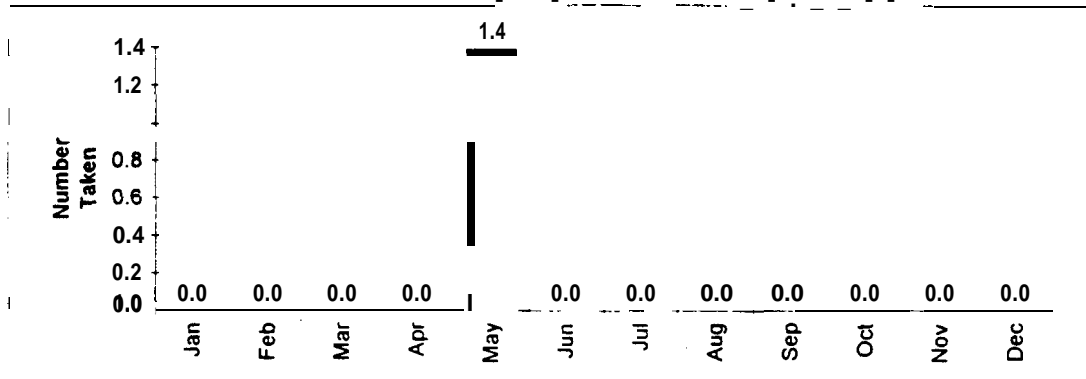
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 1993.

FIGURE 17. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KLAWOCK, 1992

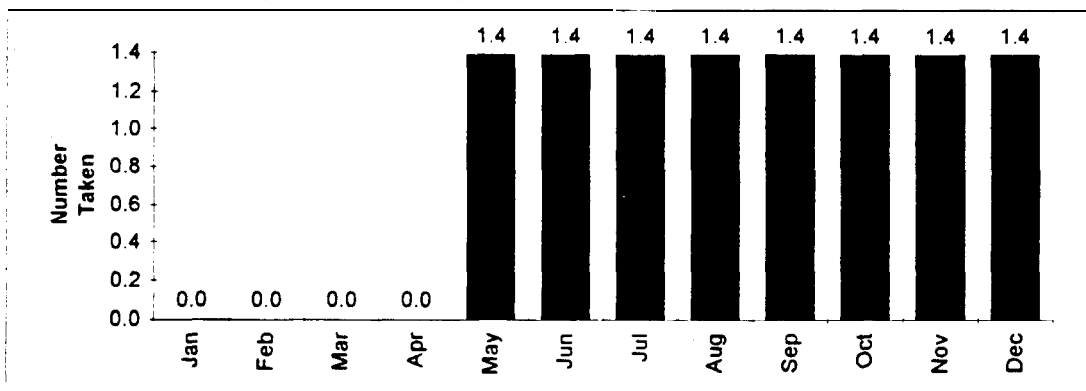
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 1993.

**TABLE 18. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KLAWOCK, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households 32  
 Surveyed Households 23  
 Sampling Fraction 71.9%  
 Sample Household Members 78  
 Estimated Household Members 108.5

**HARBOR SEAL HARVEST AND USE INFORMATION**

*Percent Of Sample Households:*

Used 73.9%  
 Hunted 39.1%  
 Harvested 30.4%  
 Received 52.2%  
 Gave Away 34.8%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 39.0  
 Total Number Struck and Lost 1.4  
 Total Number Taken 40.3  
 Number Harvested Per Capita N/A

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	1	1	2	3	2	4	0	0	0	1	1	11	26
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total Take	2	1	1	2	3	2	4	0	0	0	1	1	12	29
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.8	1.4	1.4	2.6	4.2	2.6	5.6	0.0	0.0	0.0	1.4	1.4	15.3	39.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
Total Take	2.6	1.4	1.4	2.8	4.2	2.8	5.6	0.0	0.0	0.0	1.4	1.4	16.7	46.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.6	2.3	2.3	4.6	6.9	4.6	9.2	0.0	0.0	0.0	2.3	2.3		39.0
Struck and Lost	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.4
Total Take	4.7	2.4	2.4	4.7	7.0	4.7	9.3	0.1	0.1	0.1	2.4	2.4		40.3
Total Take (%)	11.6%	66%	6.6%	11.6%	17.3%	11.6%	23.0%	0.3%	0.3%	0.3%	6.0%	6.0%		100%
Cumulative Take	4.7	7.1	9.5	14.2	21.2	25.9	35.2	35.3	35.4	35.5	37.9	40.3		
Cum. Take (%)	11.6%	17.6%	23.6%	35.2%	52.6%	64.2%	87.2%	87.5%	87.8%	66.1%	94.0%	100.0%		

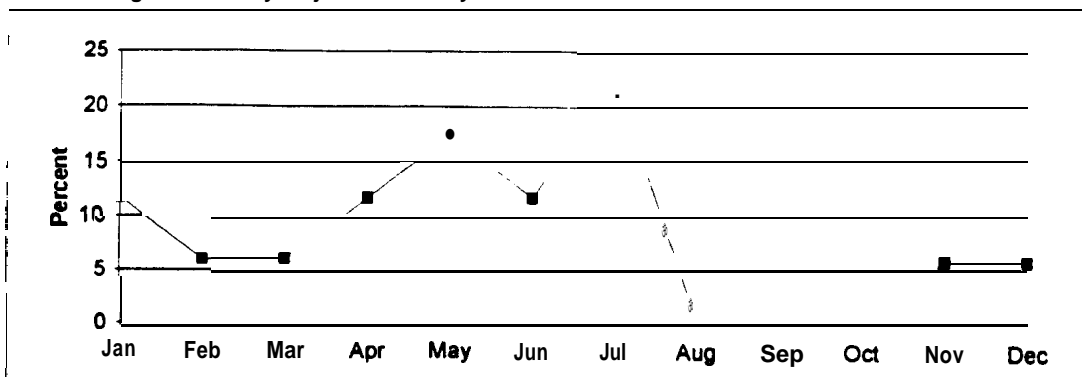
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	9	32.1%	12.5	32.1%
Adult Female	1	3.6%	1.4	3.8%
Adult Unknown Sex	5	17.9%	7.0	17.9%
Juvenile Male	3	10.7%	4.2	10.7%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	7	25.0%	9.7	25.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	3	10.7%	4.2	10.7%
Total	28	100.0%	39.0	100.0%

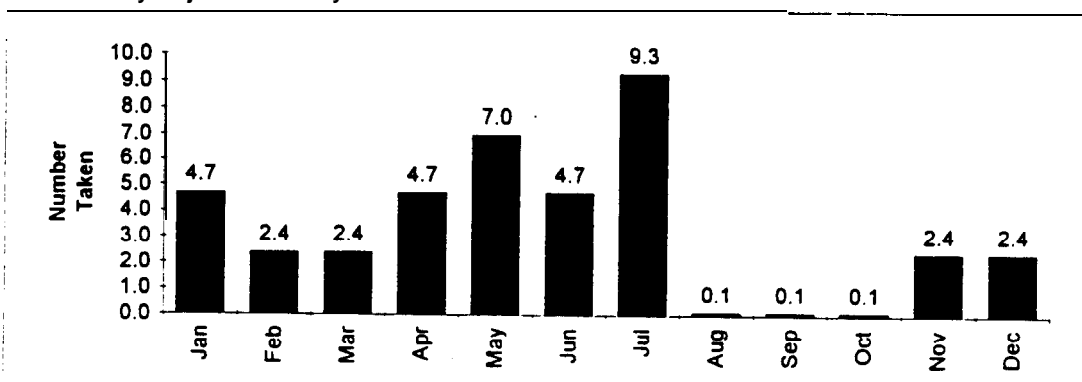
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 1993.

FIGURE 18. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KLAWOCK, 1992

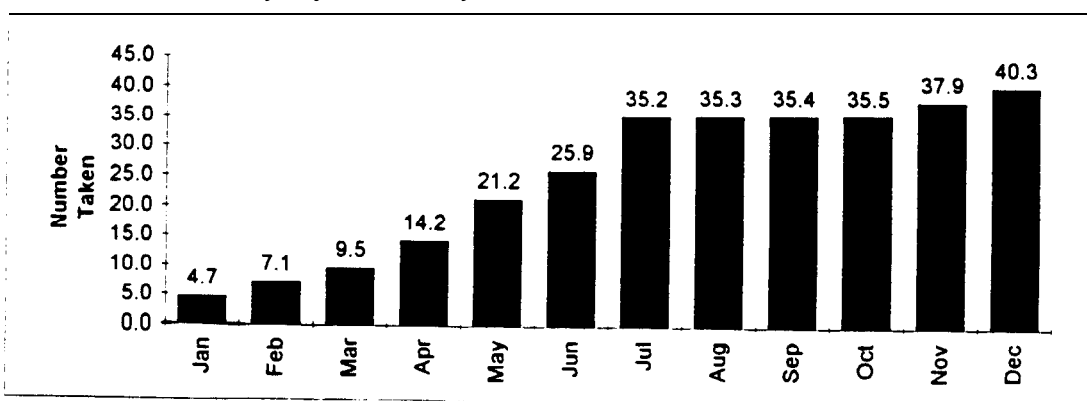
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 1993.

**TABLE 19. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KLUKWAN, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households	5
<i>Surveyed</i> Households	5
Sampling Fraction	100.0%
Sample Household Members	26
Estimated Household Members	26.0

**SEA LION HARVEST AND USE INFORMATION**

*Percent Of Sample Households:*

<i>used</i>	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	NIA

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

**SEA LION HARVEST BY AGE AND SEX**

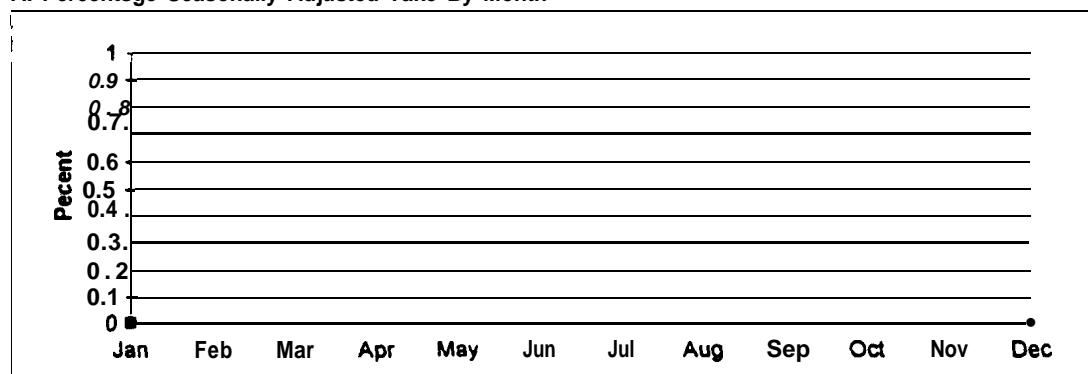
	Reported		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Village, 1993.

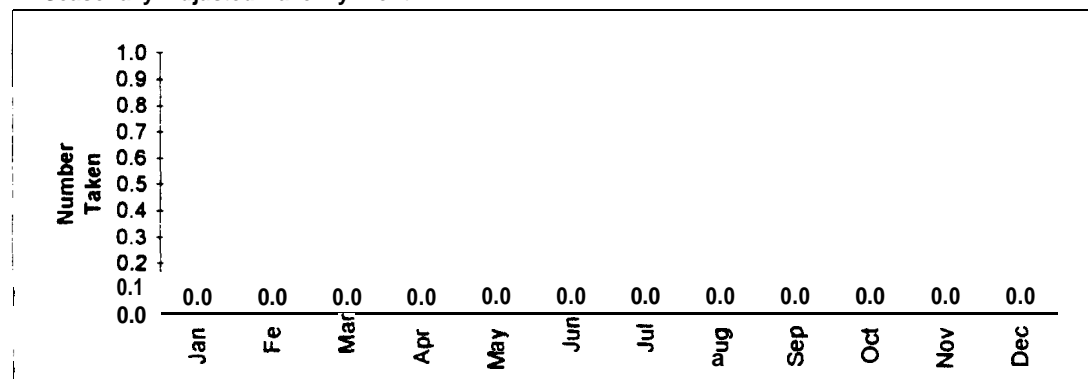


FIGURE 19. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KLUKWAN, 1992

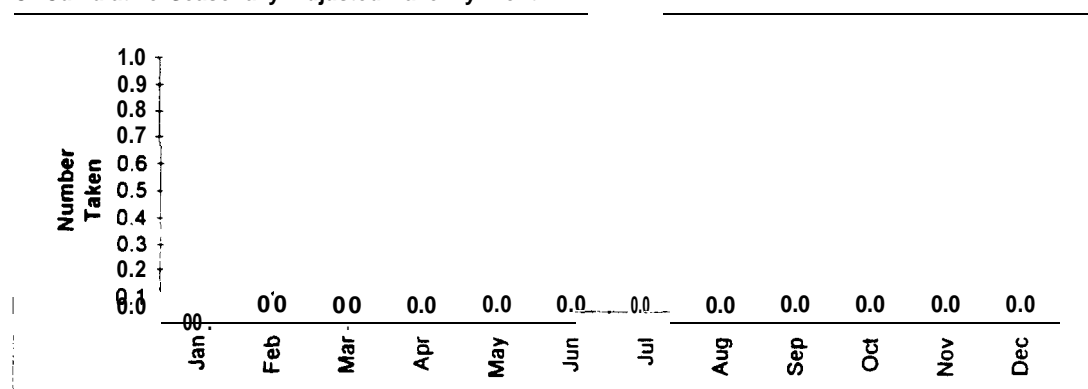
A. Percent Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Village, 1993.

**TABLE 20. HARBOR SEAL (Phoca vitulina) HARVEST AND TAKE ESTIMATES: KLUKWAN, 1992**

**SAMPLING DESIGN: CHAIN REFERRAL**

Total Sample Households	5
Surveyed Households	5
Sampling Fraction	100.0%
Sample Household Members	26
Estimated Household Members	26.0

**HARBOR SEAL HARVEST AND USE INFORMATION**

Percent Of **Sample** Households:

Used	100.0%
Hunted	100.0%
Harvested	100.0%
Received	40.0%
Gave Away	100.0%

Estimated Community **Harvest** and Take (Expanded):

Total Number Harvested	8.0
Total Number Struck and Lost	2.0
Total Number Taken	10.0
Number Harvested Per Capita	N/A

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dac	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	0	1	0	0	1	0	0	1	2	0	1	8
Struck and Lost	0	1	0	0	0	0	0	0	0	0	0	0	1	2
Total Take	0	3	0	1	0	0	1	0	0	1	2	0	2	10
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	2.0	0.0	1.0	6.0
Struck and Lost	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
Total Take	0.0	3.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	2.0	0.0	2.0	10.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.3	0.0	1.1	0.0	0.0	1.1	0.0	0.0	1.1	2.3	0.0		6.0
Struck and Lost	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.0
Total Take	0.0	4.3	0.0	1.1	0.0	0.0	1.1	0.0	0.0	1.1	2.3	0.0		10.0
Total Take (%)	0.0%	42.9%	0.0%	11.4%	0.0%	0.0%	11.4%	0.0%	0.0%	11.4%	22.9%	0.0%		100%
Cumulative Take	0.0	4.3	4.3	5.4	5.4	5.4	6.6	6.6	6.6	7.7	10.0	10.0		
Cum. Take(%)	0.0%	42.9%	42.9%	54.3%	54.3%	54.3%	65.7%	65.7%	65.7%	77.1%	100.0%	100.0%		

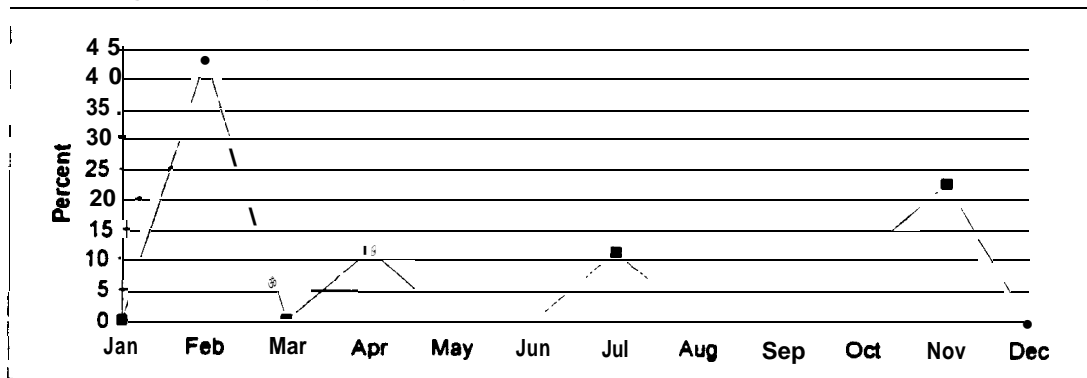
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	25.0%	2.0	25.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	3	37.5%	3.0	37.5%
Juvenile Male	1	12.5%	1.0	12.5%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	2	25.0%	2.0	25.0%
Total	8	100.0%	8.0	100.0%

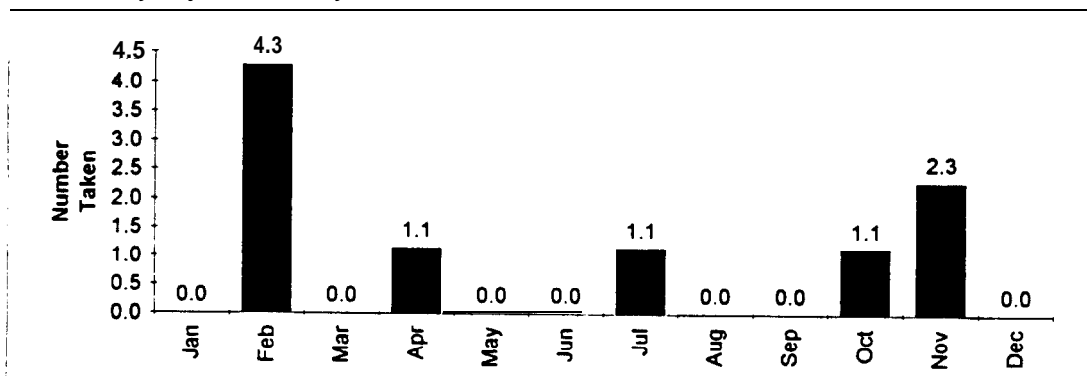
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Village, 1993

FIGURE 20. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KLUKWAN, 1992

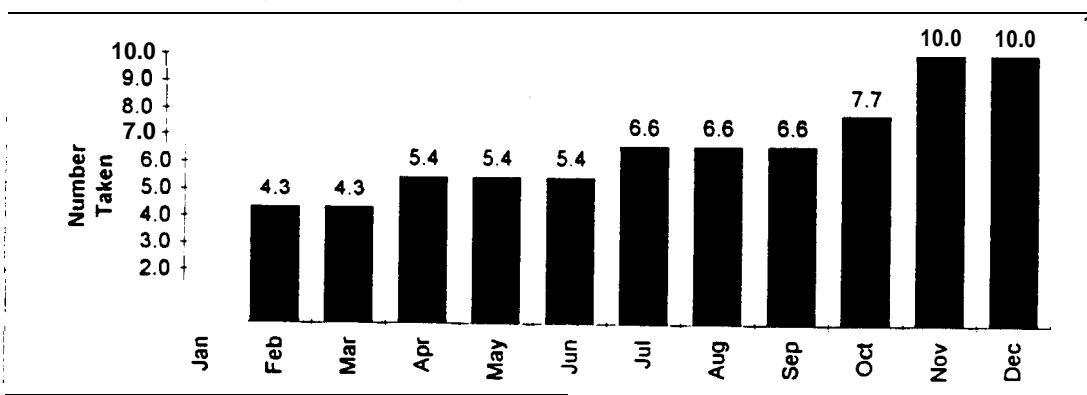
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Village, 1993.

TABLE 21. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: METLAKATLA, 1992

## SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	4
Surveyed Households	3
Sampling Fraction	75.0%
Sample Household Members	11
Estimated Household Members	14.7

## SEA LION HARVEST AND USE INFORMATION

## Percent Of Sample Households:

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

## Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	N/A

## SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

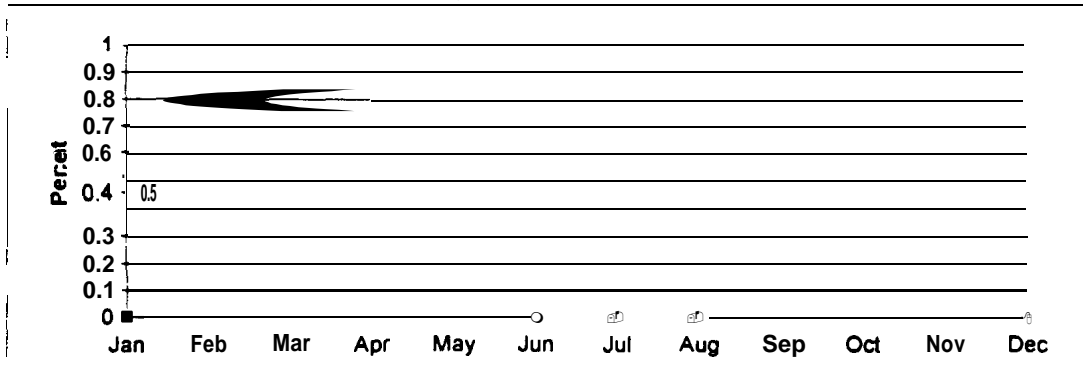
## SEA LION HARVEST BY AGE AND SEX

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	0	---	0.0	--
Adult Female	0	1 -	0.0	---
Adult Unknown Sex	0	- -	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	- -	0.0	---
Pup Male	0	- -	0.0	--
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	- -	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	--

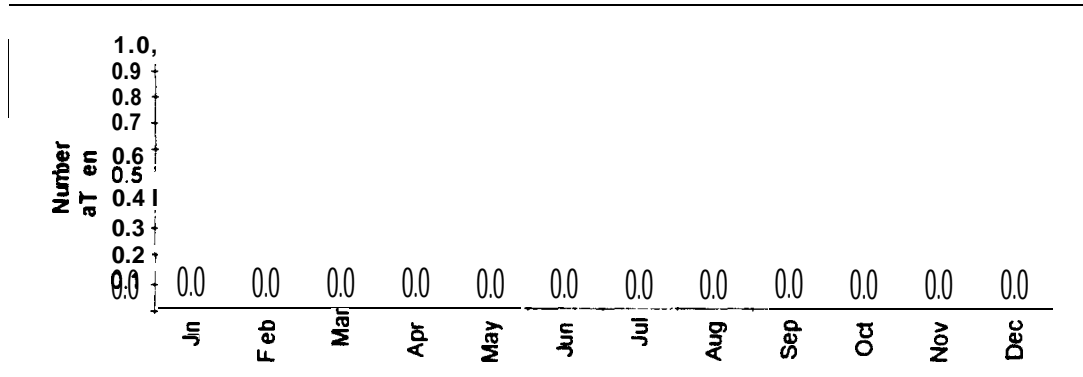
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Council of the Annette Islands Reserve and Metlakatla Indian Community, 1993.

FIGURE 21. SEALION (*Eumetopias jubatus*) TAKE ESTIMATES: METLAKATLA, 1992

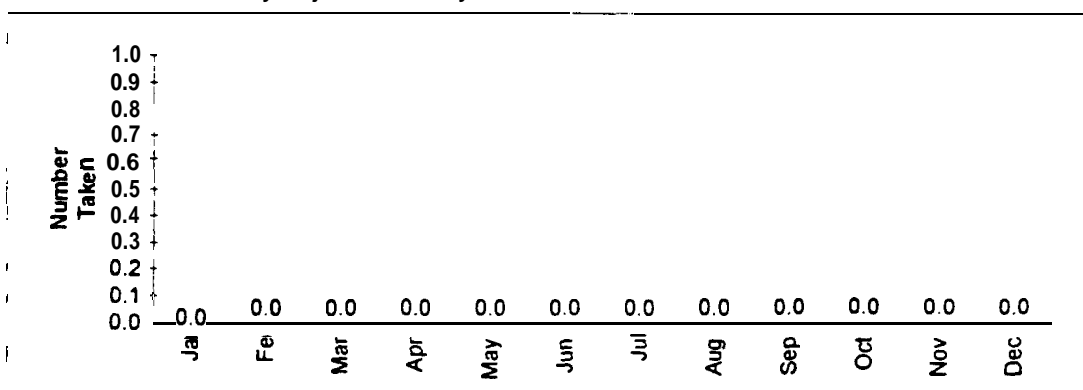
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Council Annette Islands Reserve and Metlakatla Indian Community, 1993.

**TABLE 22. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: METLAKATLA, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households	4
Surveyed Households	3
Sampling Fraction	75.0%
Sample Household Members	11
Estimated Household Members	14.7

**HARBOR SEAL HARVEST AND USE INFORMATION**

*Percent Of Sample Households:*

**used 66.7%**  
**Hunted 33.3%**  
**Harvested 33.3%**  
**Received 33.3%**  
**Gave Away 66.7%**

*Estimated Community Harvest and Take (Expanded):*

**Total Number Harvested 1.3**  
**Total Number Struck and Lost 0.0**  
**Total Number Taken 1.3**  
**Number Harvested Per Capita N/A**

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sap	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	1	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.3
Total Take (%)	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	0.3%	0.3%	0.3%	8.3%	8.3%	8.3%		100%
Cumulative Take	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3		
Cum. Take(%)	0.3%	16.7%	25.0%	33.3%	41.7%	50.0%	58.3%	66.7%	75.0%	83.3%	91.7%	100.0%		

**HARBOR SEAL HARVEST BY AGE AND SEX**

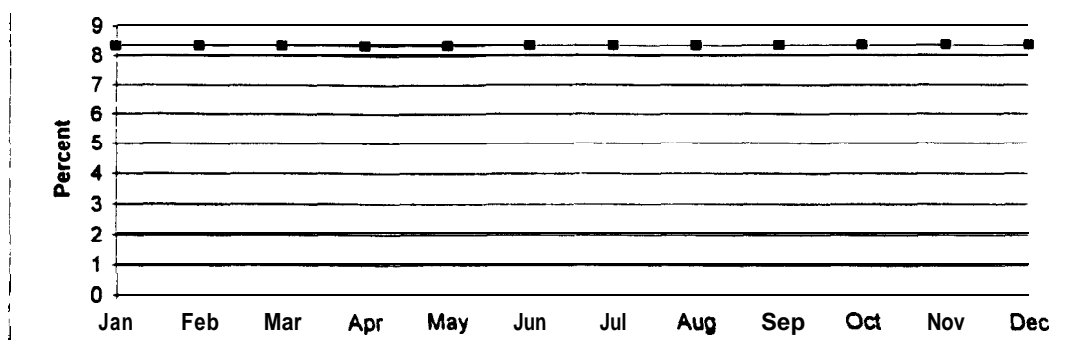
	Reported		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	1	100.0%	1.3	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	1	100.0%	1.3	100.0%

**SOURCE:**

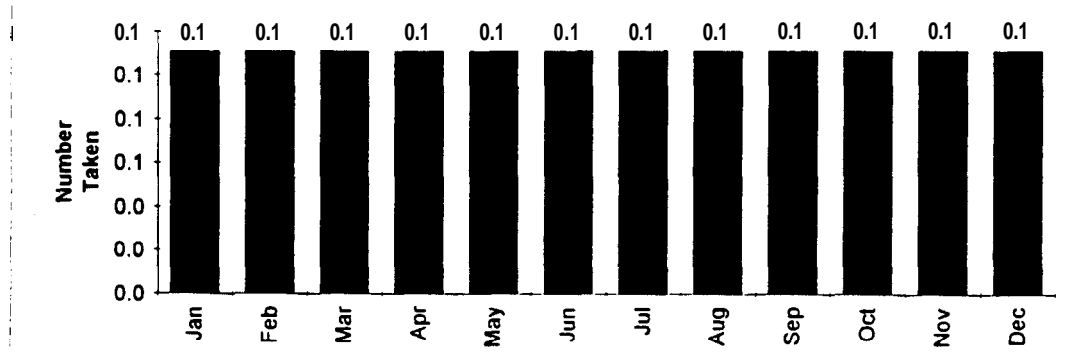
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Council Annette Islands Reserve and Metlakatla Indian Community, 1993

FIGURE 22. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: METLAKATLA, 1992

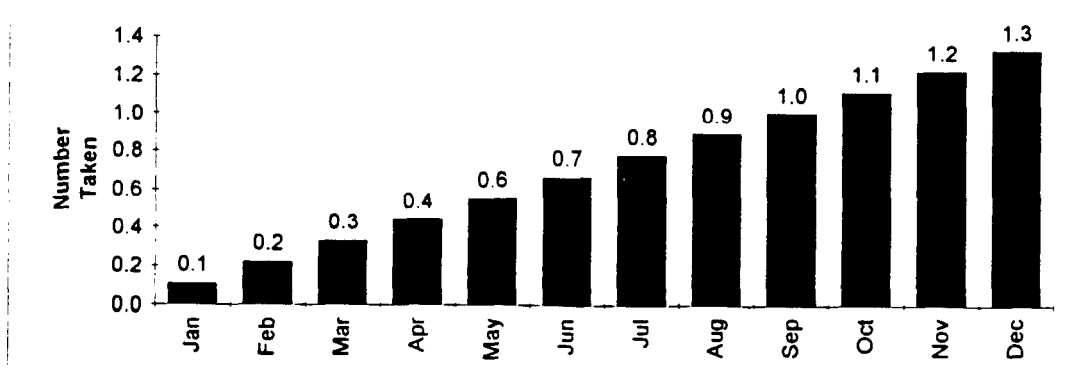
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Council Annette Islands Reserve and Metlakatla Indian Community, 1993.

**TABLE 23. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PELICAN, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households 18  
 Surveyed Households 14  
 Sampling Fraction 77.8%  
 Sample Household Members 44  
 Estimated Household Members 56.6

**SEA LION HARVEST AND USE INFORMATION**

*Percent Of Sample Households:*

*used 0.0%*  
 Hunted 0.0%  
 Harvested 0.0%  
 Received 0.0%  
 Gave Away 0.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita N/A

SEA LION HARVEST <b>BY</b> SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Community Take (%)														
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		---

**SEA LION HARVEST BY AGE AND SEX**

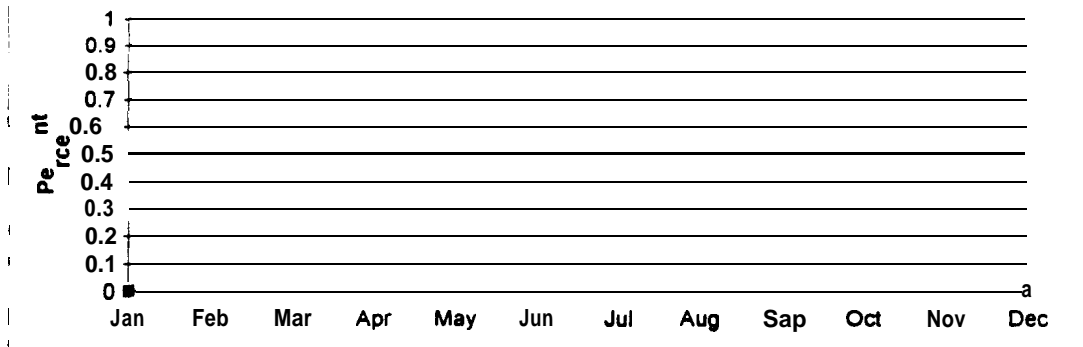
	Reported		Estimated	
	By Sample Percent	(Unexpanded)	By Community Percent	(Expanded)
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1993

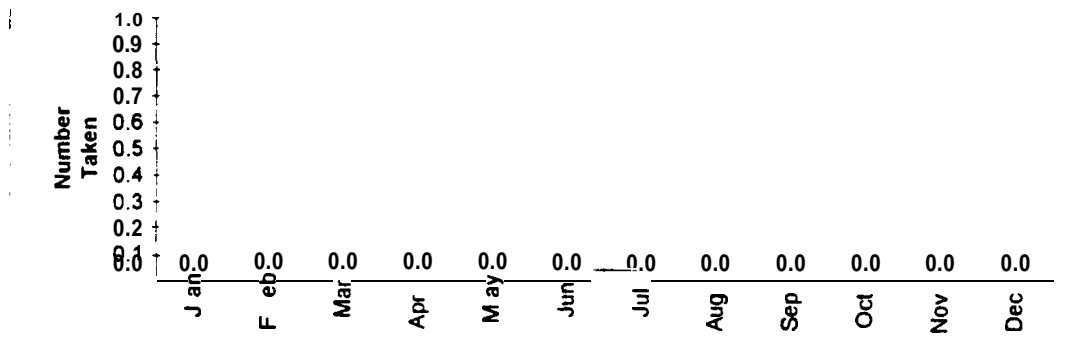


FIGURE 23. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PELICAN, 1992

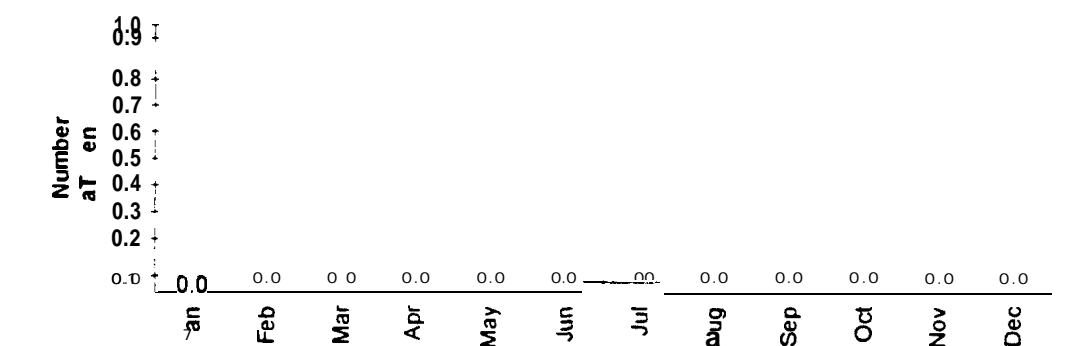
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1993.

**TABLE 24. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PELICAN, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households 18  
 Surveyed Households 14  
 Sampling Fraction 77.8%  
 Sample Household Members 44  
 Estimated Household Members 56.6

*HARBOR SEAL HARVEST AND USE INFORMATION*

Percent Of **Sample** Households:  
 used 71.4%  
 Hunted 35.7%  
 Harvested 35.7%  
 Received 57.1%  
 Gave Away 28.6%

*Estimated Community Harvest and Take (Expanded):*  
 Total Number Harvested 12.9  
 Total Number Struck and Lost 1.3  
 Total Number Taken 14.1  
 Number Harvested Per Capita N/A

iHARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	2	1	0	0	0	0	0	3	0	4	10
Struck and Lost	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Total Take	0	0	0	2	1	0	0	0	0	0	4	0	4	11
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0	3.9	0.0	5.1	12.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.3
Total Take	0.0	0.0	0.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0	5.1	0.0	5.1	14.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	4.3	2.1	0.0	0.0	0.0	0.0	0.0	6.4	0.0		12.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0		1.3
Total Take	0.0	0.0	0.0	4.3	2.1	0.0	0.0	0.0	0.0	0.0	7.7	0.0		14.1
Total Take (%)	0.0%	0.0%	0.0%	30.3%	16.2%	0.0%	0.0%	0.0%	0.0%	0.0%	54.5%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	4.3	6.4	6.4	6.4	6.4	6.4	6.4	14.1	14.1		
Cum. Take (%)	0.0%	0.0%	0.0%	30.3%	45.5%	45.5%	45.5%	45.5%	45.5%	45.5%	100.0%	100.0%		

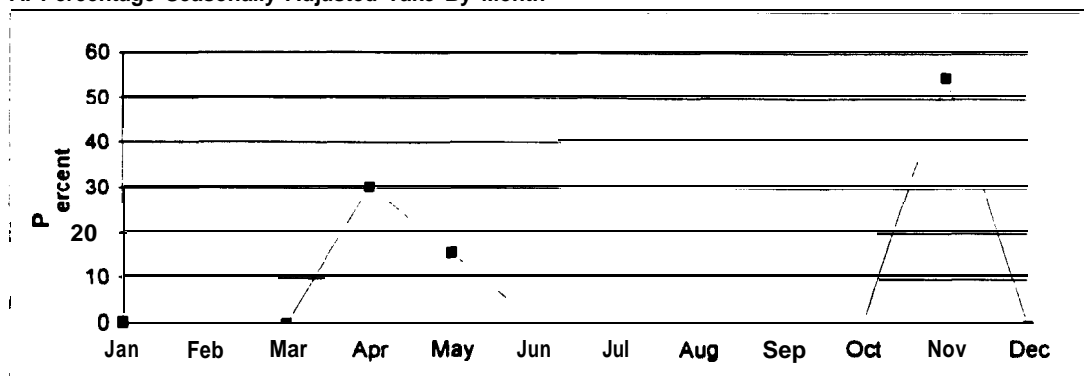
*HARBOR SEAL HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	3	30.0%	3.9	30.0%
Adult Female	3	30.0%	3.9	30.0%
Adult Unknown Sex	4	40.0%	5.1	40.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	10	100.0%	12.9	100.0%

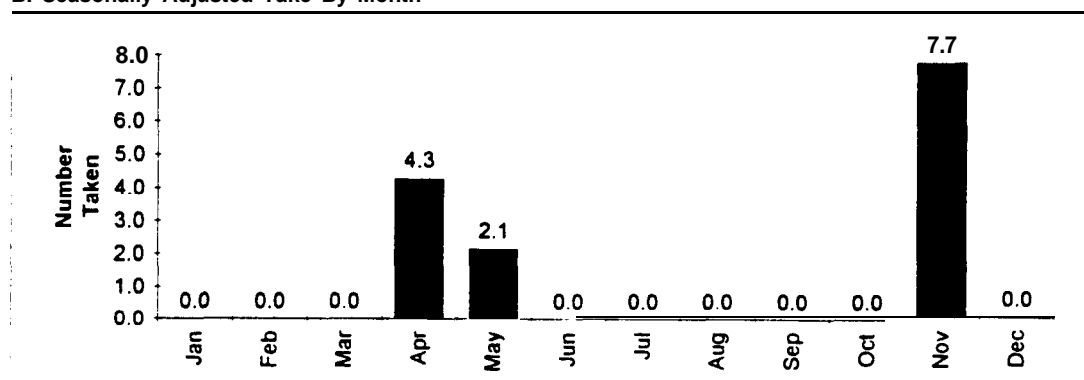
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1993.

FIGURE 24. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PELICAN, 1992

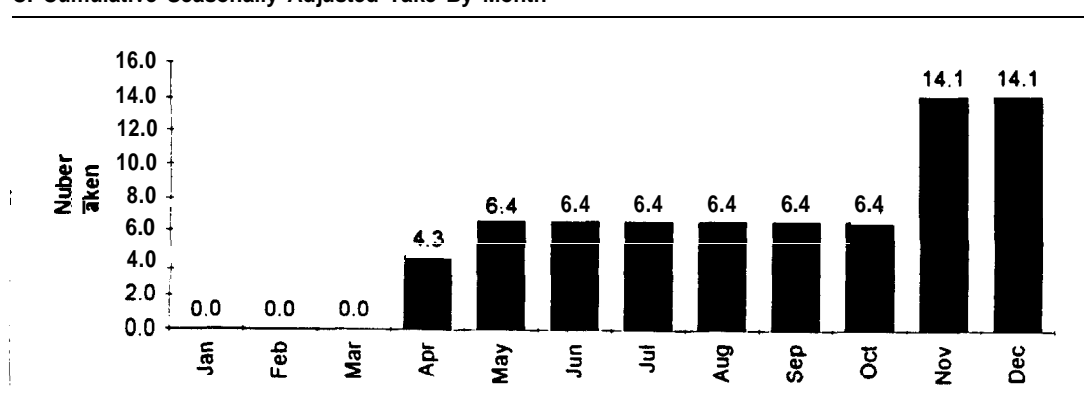
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the city of Pelican, Tlingit and Haida Indians of Pelican Community Council. 1993.

**TABLE 25. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PETERSBURG, 1992**

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 25  
 Surveyed Households 19  
 Sampling Fraction 76.0%  
 Sample Household Members 67  
 Estimated Household Members 68.2

SEA LION HARVEST AND USE INFORMATION

Percent Of **Sample** Households:  
 used 0.0%  
 Hunted 5.3%  
 Harvested 0.0%  
 Received 0.0%  
 Gave Away 0.0%

Estimated Community **Harvest and Take (Expanded):**  
 Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita N/A

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Cum. Take(%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%

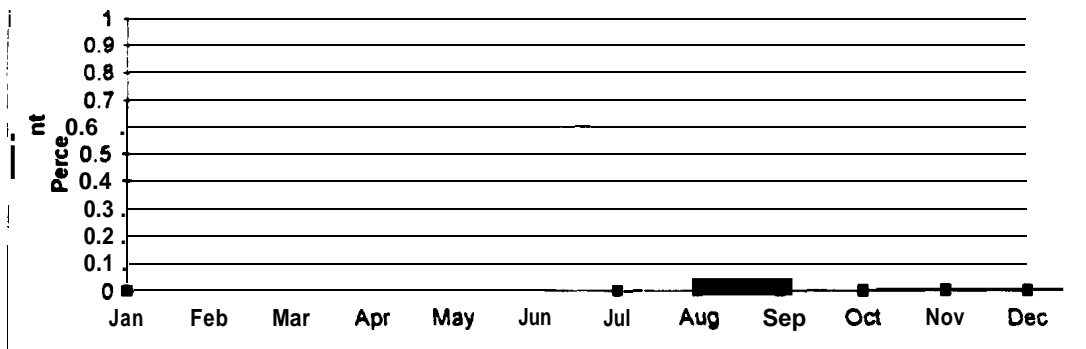
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

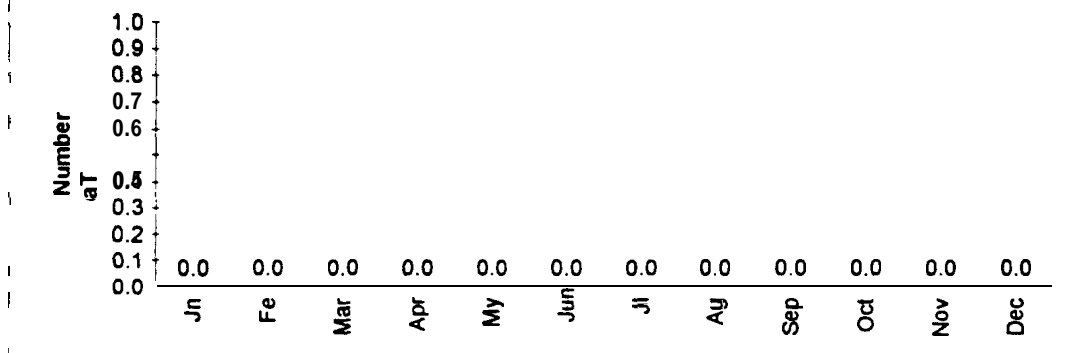
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association, 1993.

FIGURE 25. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PETERSBURG, 1992

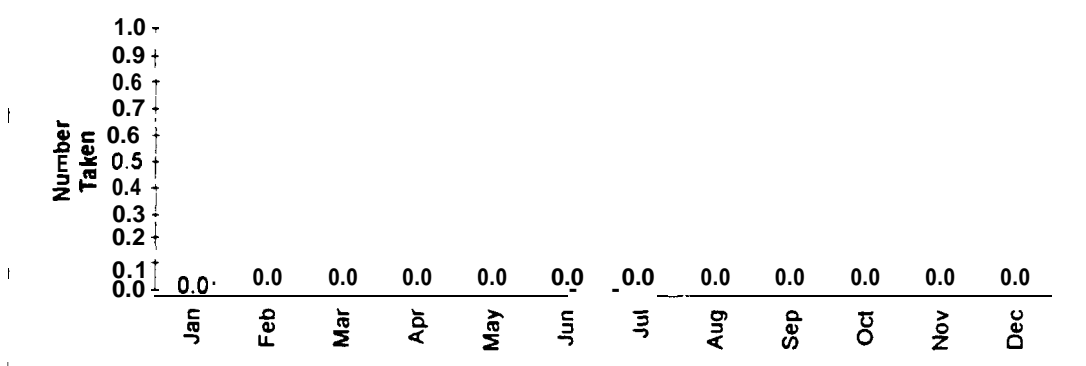
A. Percent Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association, 1993.

**TABLE 26. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PETERSBURG, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households 25  
 Surveyed Households 19  
 Sampling Fraction 76.0%  
 Sample Household Members 67  
 Estimated Household Members 88.2

**HARBOR SEAL HARVEST AND USE INFORMATION**

*Percent Of Sample Households:*

Used 84.2%  
 Hunted 42.1%  
 Harvested 36.8%  
 Received 57.9%  
 Gave Away 42.1%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 22.4  
 Total Number Struck and Lost 2.6  
 Total Number Taken 25.0  
 Number Harvested Per Capita N/A

**HARBOR SEAL HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	4	2	3	0	1	0	2	0	1	4	0	0	17
Struck and Lost	0	1	0	0	0	0	0	0	0	0	1	0	0	2
Total Take	0	5	2	3	0	1	0	2	0	1	5	0	0	19
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	5.3	2.6	3.9	0.0	1.3	0.0	2.6	0.0	1.3	5.3	0.0	0.0	22.4
Struck and Lost	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	2.6
Total Take	0.0	6.6	2.6	3.9	0.0	1.3	0.0	2.6	0.0	1.3	6.6	0.0	0.0	25.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	5.3	2.6	3.9	0.0	1.3	0.0	2.6	0.0	1.3	5.3	0.0		22.4
Struck and Lost	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0		2.6
Total Take	0.0	6.6	2.6	3.9	0.0	1.3	0.0	2.6	0.0	1.3	6.6	0.0		25.0
Total Take (%)	0.0%	26.3%	10.5%	15.6%	0.0%	5.3%	0.0%	10.5%	0.0%	5.3%	26.3%	0.0%		100%
Cumulative Take	0.0	6.6	9.2	13.2	13.2	14.5	14.5	17.1	17.1	16.4	25.0	25.0		
Cum. Take (%)	0.0%	26.3%	36.6%	52.6%	52.6%	57.9%	57.9%	68.4%	68.4%	73.7%	100.0%	100.0%		

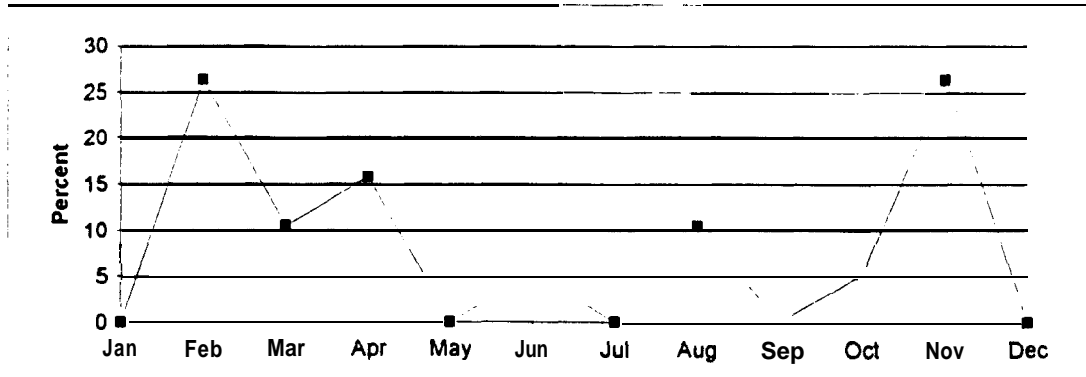
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	7	41.2%	9.2	41.2%
Adult Female	2	11.8%	2.6	11.6%
Adult Unknown Sex	5	29.4%	6.6	29.4%
Juvenile Male	3	17.6%	3.9	17.6%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	17	100.0%	22.4	100.0%

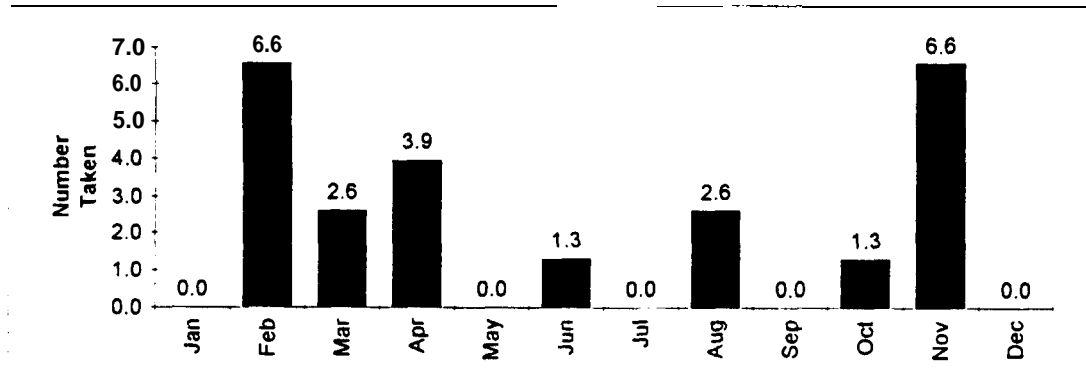
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association, 1993

FIGURE 26. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PETERSBURG, 1992

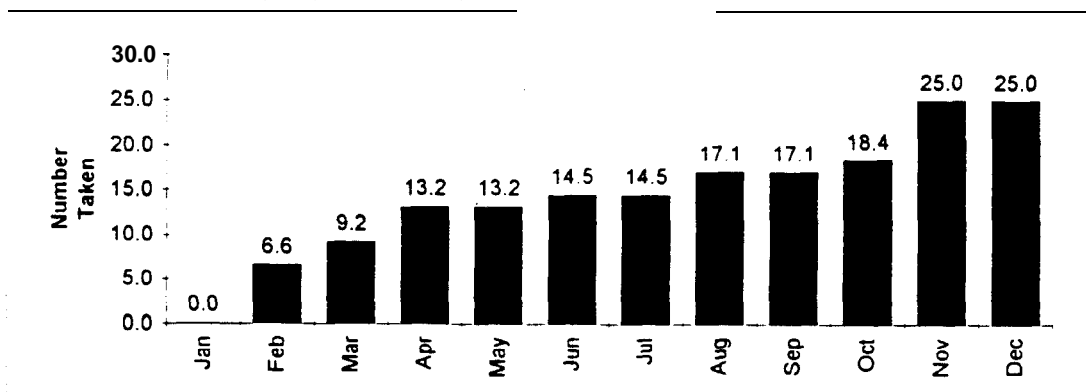
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE. Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association, 1993

**TABLE 27. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SAXMAN, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households 21  
 Surveyed Households 17  
 Sampling Fraction 61.0%  
 Sample Household Members 90  
 Estimated Household Members 111.2

**SEA LION HARVEST AND USE INFORMATION**

Percent Of Sample Households:  
 Used 11.8%  
 Hunted 0.0%  
 Harvested 0.0%  
 Received 11.0%  
 Gave Away 0.0%

Estimated Community Harvest and Take (Expanded):  
 Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita N/A

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---			---		---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

**SEA LION HARVEST BY AGE AND SEX**

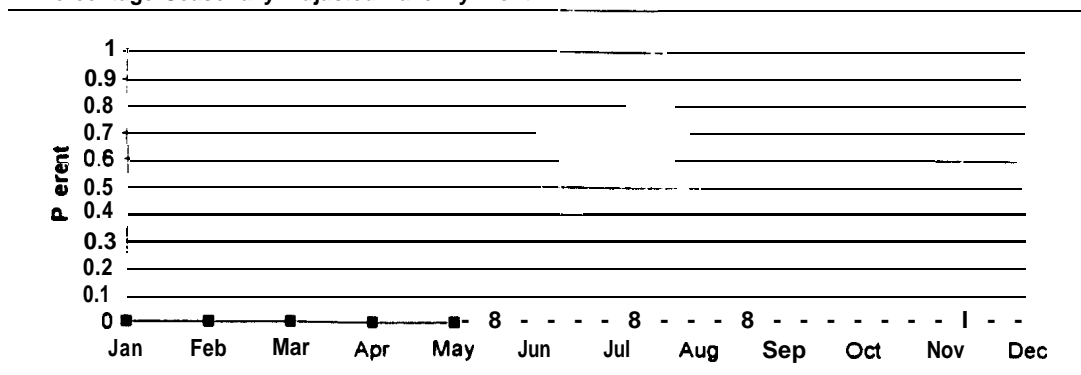
	Reported		Estimated	
	By Sample Percent	(Unexpanded)	By Community Percent	(Expanded)
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Saxman and Saxman IRA Council, 1993.

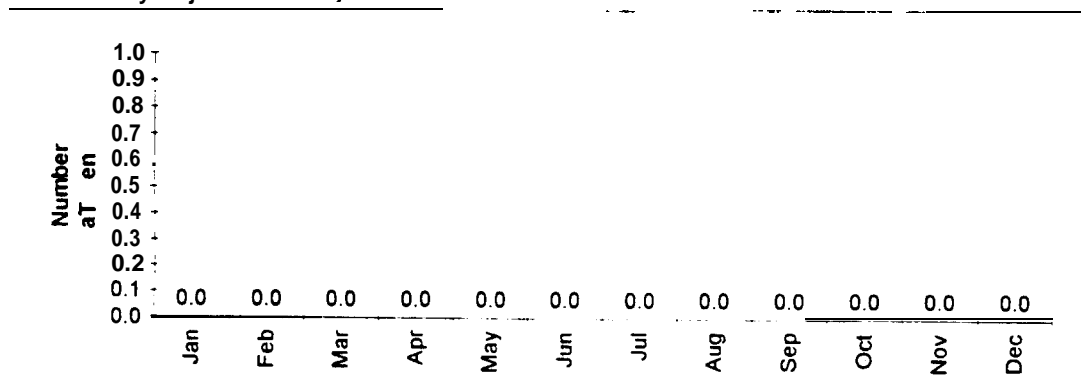


FIGURE 27. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SAXMAN, 1992

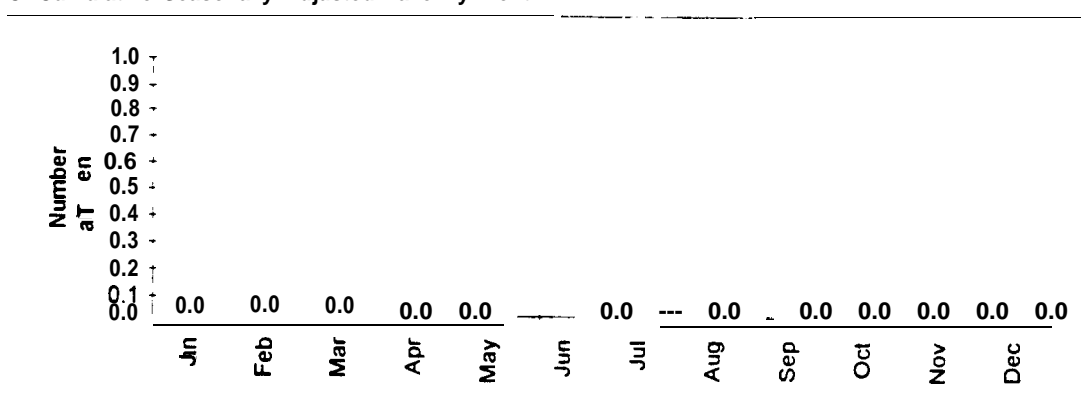
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE. Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of Saxman and Saxman IRA Council. 1993

**TABLE 28. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SAXMAN, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households 21  
 Surveyed Households 17  
 Sampling Fraction 81.0%  
 Sample Household Members 90  
 Estimated Household Members 111.2

**HARBOR SEAL HARVEST AND USE INFORMATION**

*Percent Of Sample Households:*

Used 82.4%  
 Hunted 47.1%  
 Harvested 41.2%  
 Received 64.7%  
 Gave Away 52.9%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 22.2  
 Total Number Struck and Lost 1.2  
 Total Number Taken 23.5  
 Number Harvested Per Capita N/A

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	3	0	0	0	1	3	1	3	3	2	2	0	18
Struck and Lost	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	0	4	0	0	0	1	3	1	3	3	2	2	0	19
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	3.7	0.0	0.0	0.0	1.2	3.7	1.2	3.7	3.7	2.5	2.5	0.0	22.2
Struck and Lost	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Total lake	0.0	4.9	0.0	0.0	0.0	1.2	3.7	1.2	3.7	3.7	2.5	2.5	0.0	23.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	3.7	0.0	0.0	0.0	1.2	3.7	1.2	3.7	3.7	2.5	2.5		22.2
Struck and Lost	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.2
Total Take	0.0	4.9	0.0	0.0	0.0	1.2	3.7	1.2	3.7	3.7	2.5	2.5		23.5
Total Take (%)	0.0%	21.1%	0.0%	0.0%	0.0%	53%	15.6%	53%	15.6%	15.8%	10.5%	10.5%		100%
Cumulative Take	0.0	4.9	4.9	4.9	4.9	6.2	9.9	11.1	14.8	18.5	21.0	23.5		
Cum. Take(%)	0.0%	21.1%	21.1%	21.1%	21.1%	26.3%	42.1%	47.4%	63.2%	78.9%	89.5%	100.0%		

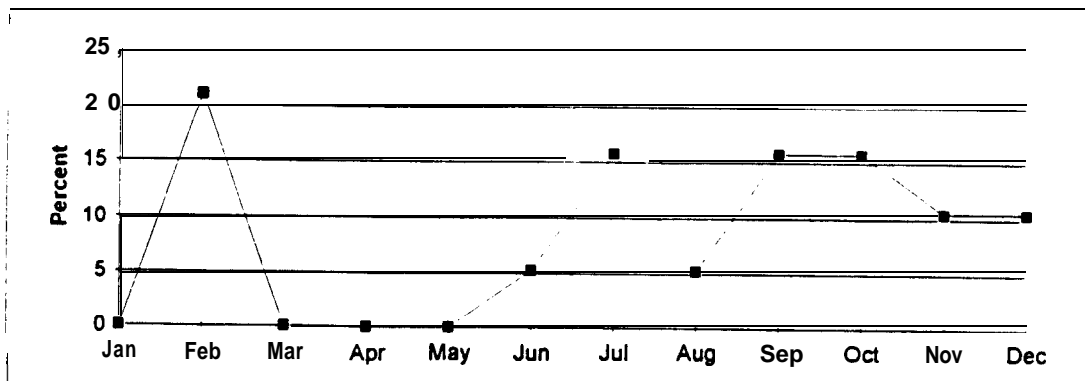
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	5	27.8%	6.2	27.8%
Adult Female	1	5.6%	1.2	5.6%
Adult Unknown Sex	5	27.8%	6.2	27.8%
Juvenile Male	1	5.6%	1.2	5.6%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	6	33.3%	7.4	33.3%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	18	100%	22.2	100.0%

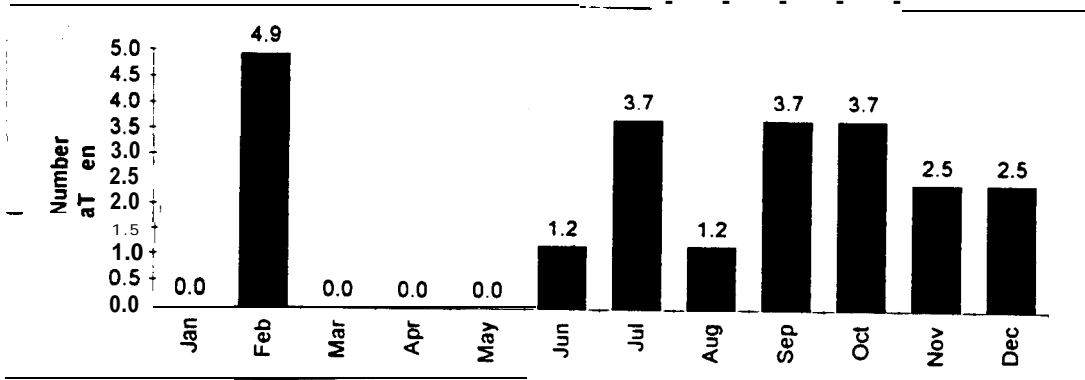
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Saxman and Saxman IRA Council, 1993

FIGURE 28. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SAXMAN, 1992

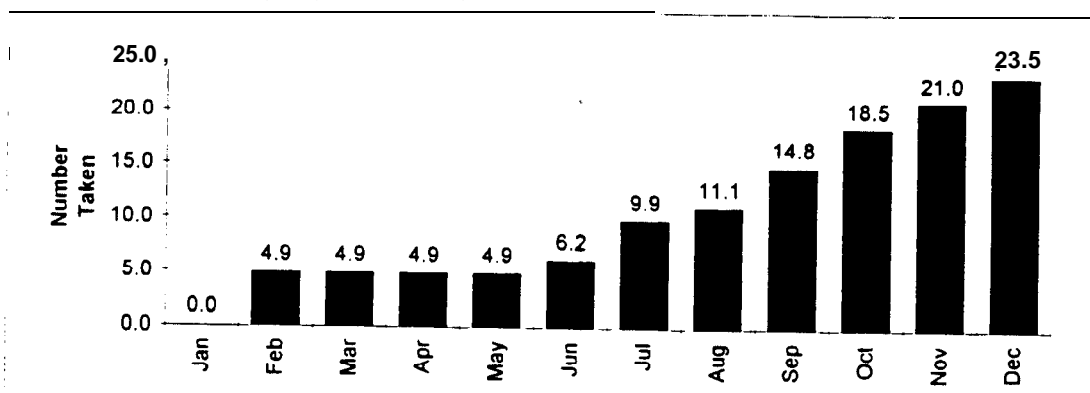
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Saxman and Saxman IRA Council, 1993

**TABLE 29. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SITKA, 1992**

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 68  
 Surveyed Households 54  
 Sampling Fraction 79.4%  
 Sample Household Members 206  
 Estimated Household Members 259.4

SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households:

Used 1.9%  
 Hunted 1.9%  
 Harvested 1.9%  
 Received 0.0%  
 Gave Away 0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 3.8  
 Total Number Struck and Lost 1.3  
 Total Number Taken 5.0  
 Number Harvested Per Capita N/A

SEA LION HARVEST <i>BY</i> SEASON													Unknown		Total
	A n	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	1	0	0	0	0	0	0	1	1	0	0	0	0	3	
Struck and Lost	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
TotalTake	2	0	0	0	0	0	0	1	1	0	0	0	0	4	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.0	0.0	0.0	3.8	
Struck and Lost	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	
Total Take	2.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.0	0.0	0.0	5.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXpANDED)															
Harvest	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.0	0.0		3.0	
Struck and Lost	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.3	
Total Take	2.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.0	0.0		5.0	
Total Take (%)	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	25.0%	0.0%	0.0%	0.0%		100%	
Cumulative Take	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.0	5.0	5.0	5.0	5.0			
Cum Take (%)	50.0%	50.0%	50.0%	50.0%	500%	50.0%	50.0%	75.0%	100.0%	100.0%	100.0%	100.0%			

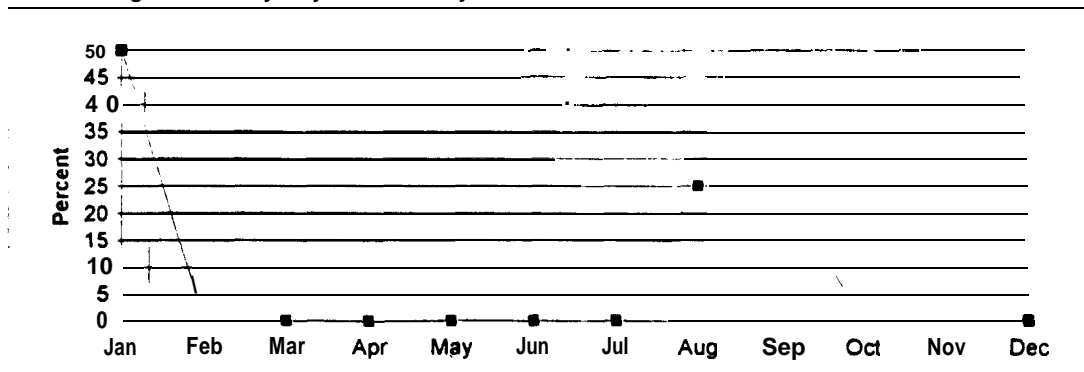
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	33.3%	1.3	33.3%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	33.3%	1.3	33.3%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	33.3%	1.3	33.3%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	3.8	100.0%

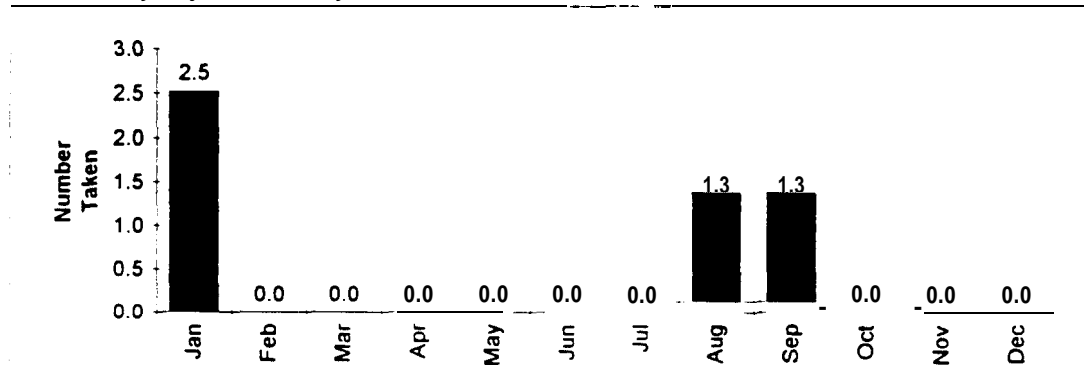
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the ANB and Sitka Tribal Association, 1993

FIGURE 29. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SITKA, 1992

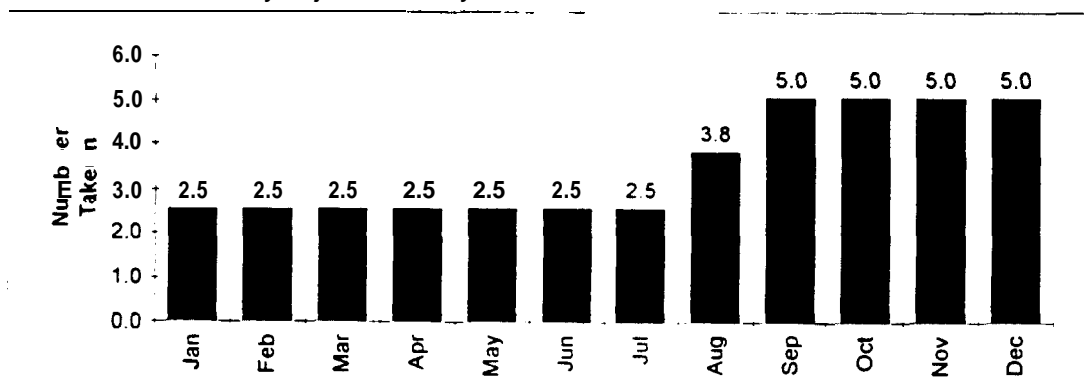
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the ANB and Sitka Tribal Association, 1993

**TABLE 30. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SITKA, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households 66  
 Surveyed Households 54  
 Sampling Fraction 79.4%  
 Sample Household Members 206  
 Estimated Household Members 259.4

**HARBOR SEAL HARVEST AND USE INFORMATION**

*Percent Of Sample Households:*

Used 96.1%  
 Hunted 55.6%  
 Harvested 50.0%  
 Received 55.0%  
 Gave Away 63.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 124.7  
 Total Number Struck and Lost 21.4  
 Total Number Taken 146.1  
 Number Harvested Per Capita NIA

HARBOR SEAL HARVEST BY SEASON													Unknown		Total
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	5	10	22	7	9	5	5	7	9	10	5	5	0	99	
Struck and Lost	1	0	2	2	1	0	4	0	0	0	3	1	3	17	
Total Take	6	10	24	9	10	5	9	7	9	10	8	6	3	116	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	6.3	12.6	27.7	8.0	11.3	6.3	6.3	0.0	11.3	12.6	6.3	6.3	0.0	124.7	
Struck and Lost	1.3	0.0	2.5	2.5	1.3	0.0	5.0	0.0	0.0	0.0	3.8	1.3	3.8	21.4	
Total Take	7.6	12.6	30.2	11.3	12.6	6.3	11.3	8.8	11.3	12.6	10.1	7.6	3.8	146.1	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	6.3	12.6	27.7	8.8	11.3	6.3	6.3	8.0	11.3	12.6	6.3	6.3		124.7	
Struck and Lost	1.5	0.0	3.1	3.1	1.5	0.0	6.1	0.0	0.0	0.0	4.6	1.5		21.4	
Total Take	7.8	12.6	30.8	11.9	12.9	6.3	12.4	8.8	11.3	12.6	10.9	7.8		146.1	
Total Take (%)	5.4%	6.6%	21.1%	8.1%	8.8%	4.3%	8.5%	6.0%	7.8%	8.6%	7.5%	5.4%		100%	
Cumulative Take	7.8	20.4	51.2	63.1	75.9	82.2	94.6	103.4	114.8	127.4	138.2	146.1			
Cum Take (%)	5.4%	14.0%	35.0%	43.2%	52.0%	56.3%	64.0%	70.8%	76.6%	87.2%	94.6%	100.0%			

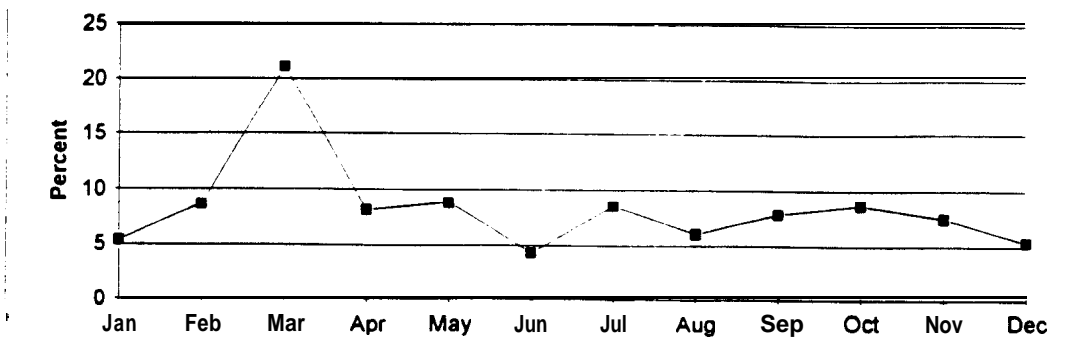
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	47	47.5%	59.2	47.5%
Adult Female	24	24.2%	30.2	24.2%
Adult Unknown Sex	25	25.3%	31.5	25.3%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	1.0%	1.3	1.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	1.0%	1.3	1.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	1.0%	1.3	1.0%
Total	99	100.0%	124.7	100.0%

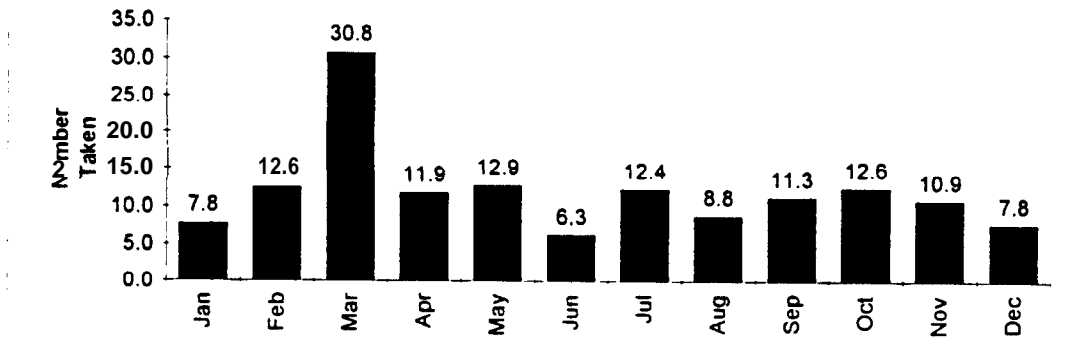
SOURCE, Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the ANB and Sitka Tribal Association, 1993

FIGURE 30. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SITKA, 1992

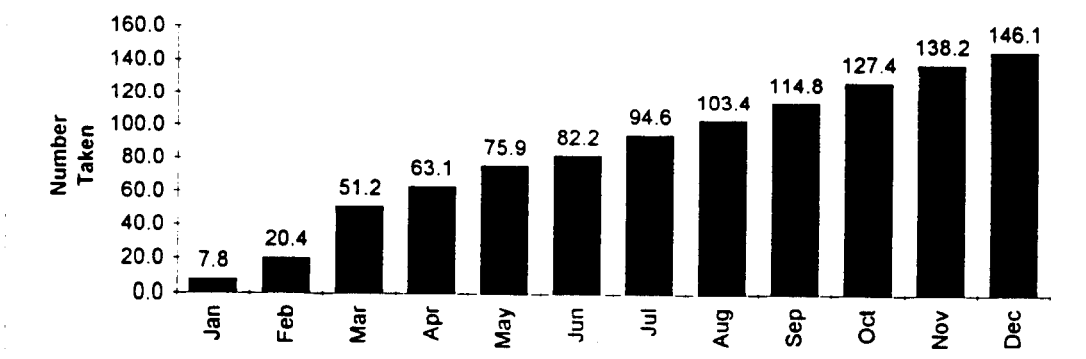
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department Of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the ANB and Sitka Tribal Association, 1993.

TABLE 31. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: WRANGELL, 1992

## SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	6
Surveyed Households	3
Sampling Fraction	50.0%
Sample Household Members	6
Estimated Household Members	16.0

## SEA LION HARVEST AND USE INFORMATION

## Percent Of Sample Households:

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

## Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	N/A

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

## SEA LION HARVEST BY AGE AND SEX

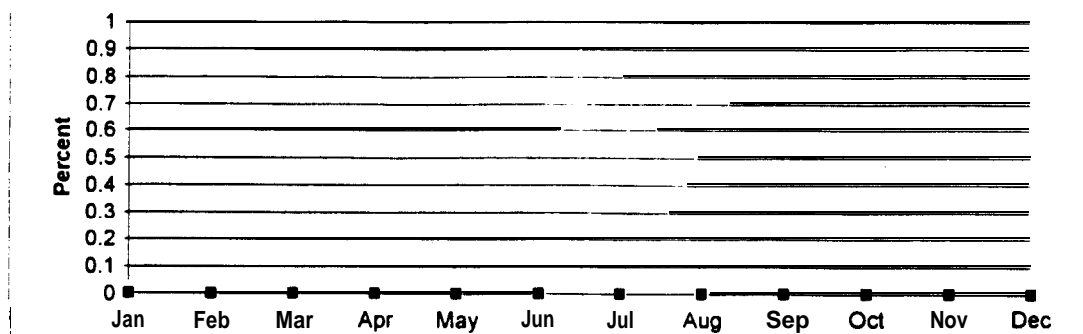
	Reported		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Wrangell Cooperative Association, 1993

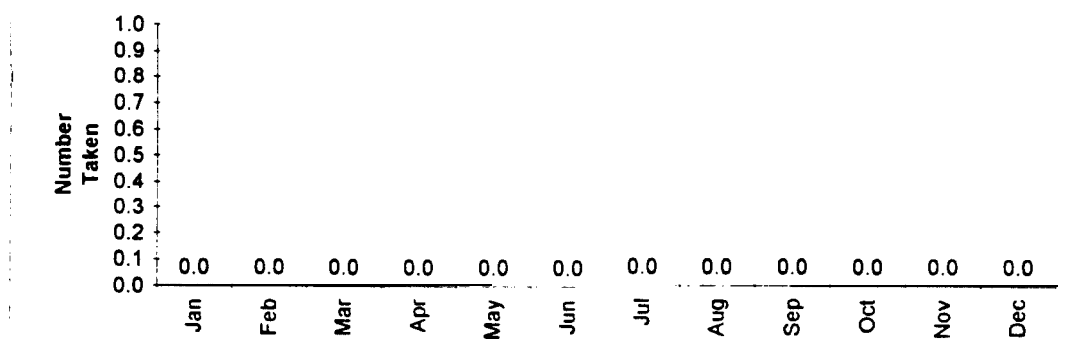


FIGURE 31. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: WRANGELL, 1992

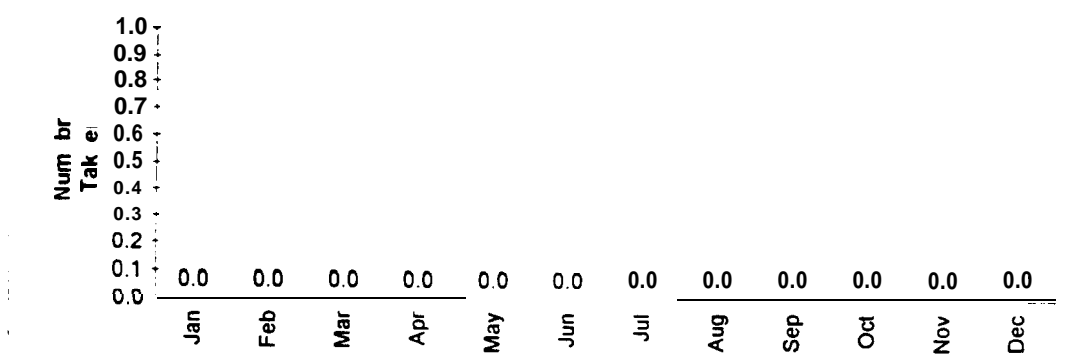
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Wrangell Cooperative Association, 1993

**TABLE 32, HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: WRANGELL, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households	6
Surveyed Households	3
Sampling Fraction	50.0%
Sample Household Members	8
Estimated Household Members	16.0

*HARBOR SEAL HARVEST AND USE INFORMATION*

*Percent Of Sample Households:*

Used 33.3%  
Hunted 33.3%  
Harvested 33.3%  
Received 0.0%  
Gave Away 33.3%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 6.0  
Total Number Struck and Lost 8.0  
Total Number Taken 14.0  
Number Harvested Per Capita N/A

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	1	0	1	0	1	0	0	0	0	3
Struck and Lost	0	0	0	0	2	0	2	0	0	0	0	0	0	4
Total Take	0	0	0	0	3	0	3	0	1	0	0	0	0	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	6.0
Struck and Lost	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
Total Take	0.0	0.0	0.0	0.0	6.0	0.0	6.0	0.0	2.0	0.0	0.0	0.0	0.0	14.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0		6.0
Struck and Lost	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0		6.0
Total Take	0.0	0.0	0.0	0.0	6.0	0.0	6.0	0.0	2.0	0.0	0.0	0.0		14.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	42.9%	0.0%	42.9%	0.0%	14.3%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	6.0	6.0	12.0	12.0	14.0	14.0	14.0	14.0		
Cum. take (%)	0.0%	0.0%	0.0%	0.0%	42.9%	42.9%	65.7%	85.7%	100.0%	100.0%	100.0%	100.0%		

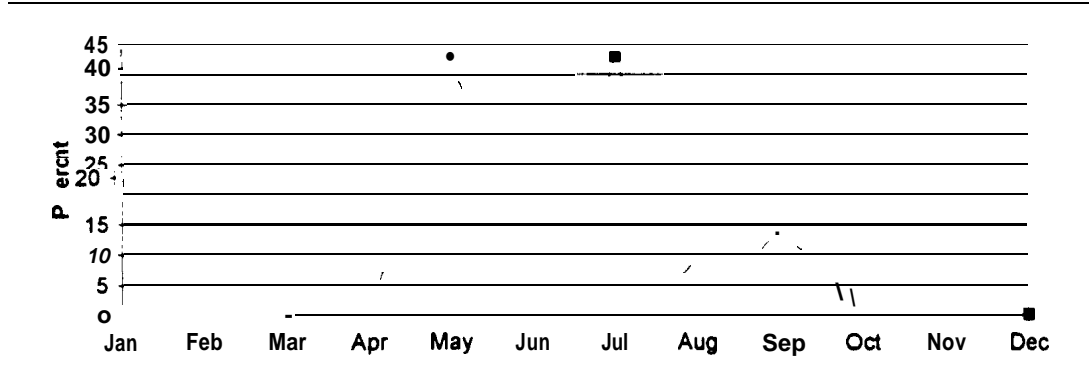
*HARBOR SEAL HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	33.3%	2.0	33.3%
Adult Female	2	66.7%	4.0	66.7%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	6.0	100.0%

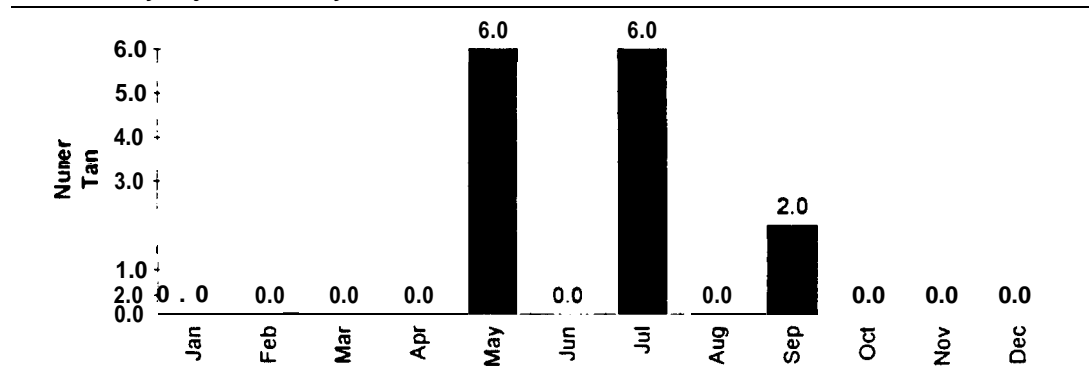
SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Wrangell Cooperative Association, 1993

FIGURE 32. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: WRANGELL, 1992

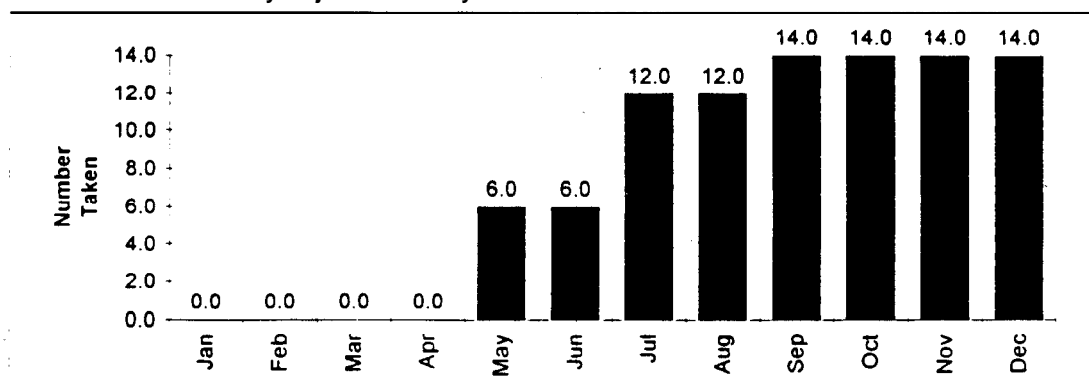
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Wrangell Cooperative Association. 1993.

TABLE 33. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: YAKUTAT, 1992

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households 52  
 Surveyed Households 39  
 Sampling Fraction 75.0%  
 Sample Household Members 160  
 Estimated Household Members 213.3

## SEA LION HARVEST AND USE INFORMATION

Percent Of Sample Households:

Used 0.0%  
 Hunted 0.0%  
 Harvested 0.0%  
 Received 0.0%  
 Gave Away 0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita N/A

## SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (WPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

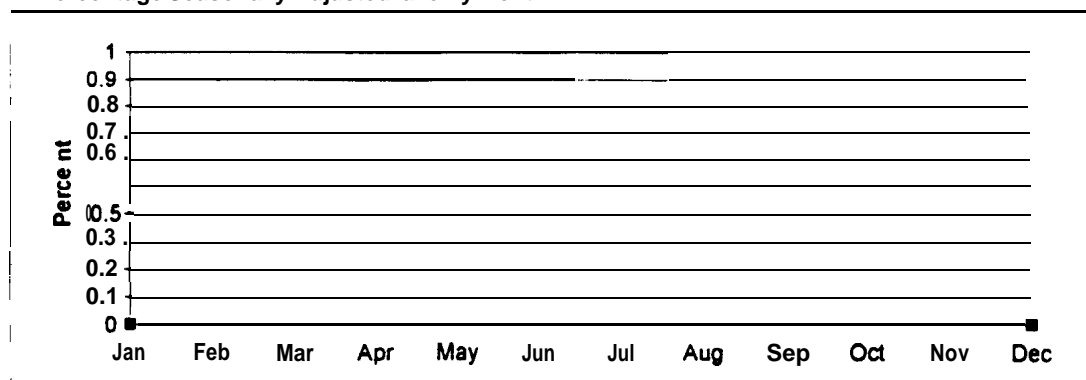
## SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	---	0.0	--
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	--
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	--

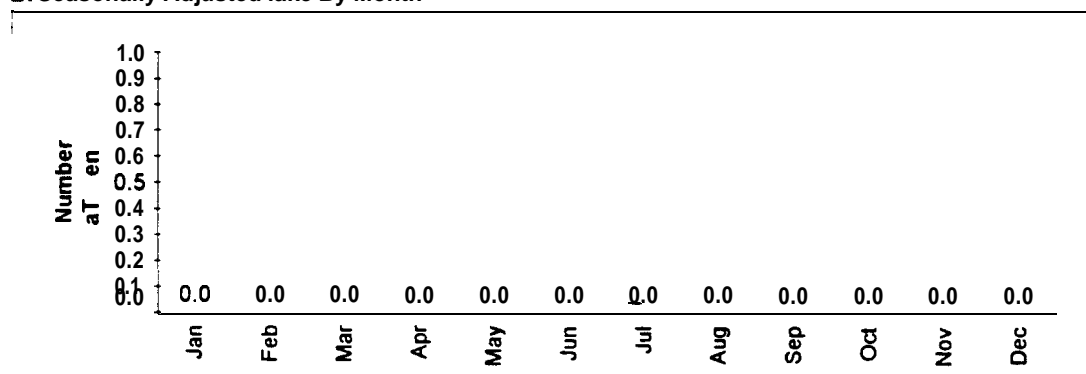
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1993.

FIGURE 33. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: YAKUTAT, 1992

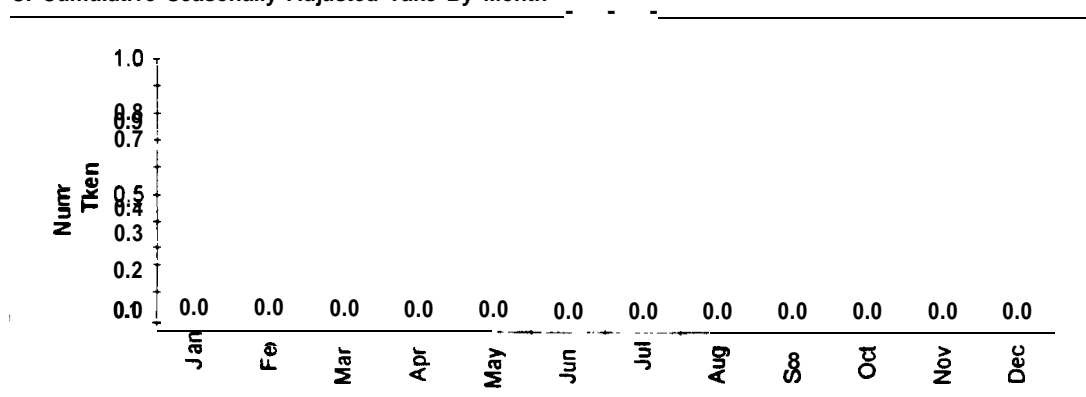
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department Of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc.. 1993.

**TABLE 34. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: YAKUTAT, 1992**

*SAMPLING DESIGN: CHAIN REFERRAL*

Total Sample Households 52  
 Surveyed Households 39  
 Sampling Fraction 75.0%  
 Sample Household Members 160  
 Estimated Household Members 213.3

*HARBOR SEAL HARVEST AND USE INFORMATION*

**Percent** Of **Sample** Households:

Used 100.0%  
 Hunted 69.2%  
 Harvested 46.7%  
 Received 76.9%  
 Gave Away 61.5%

**Estimated** Community **Harvest and Take (Expanded):**

Total Number Harvested 248.0  
 Total Number Struck and Lost 61.3  
 Total Number Taken 309.3  
 Number Harvested Per Capita N/A

HARBOR SEAL HARVEST BY SEASON												Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	9	12	28	22	22	16	16	15	12	6	13	13	0	166
Struck and Lost	1	1	2	1	5	7	9	13	0	0	0	0	7	46
Total Take	10	13	30	23	27	23	27	20	12	6	13	13	7	232
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	12.0	16.0	37.3	29.3	29.3	21.3	24.0	20.0	16.0	8.0	17.3	17.3	0.0	248.0
Struck and Lost	1.3	1.3	2.7	1.3	6.7	9.3	12.0	17.3	0.0	0.0	0.0	0.0	9.3	61.3
Total Take	13.3	17.3	40.0	30.7	36.0	30.7	36.0	37.3	16.0	8.0	17.3	17.3	9.3	309.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	12.0	16.0	37.3	29.3	29.3	21.3	24.0	20.0	16.0	8.0	17.3	17.3		246.0
Struck and Lost	1.6	t	.6	3.1	1.6	7.9	11.0	14.2	M.4	0.0	0.0	0.0		61.3
Total Take	13.6	17.6	40.5	30.9	37.2	32.3	36.2	40.4	16.0	8.0	17.3	17.3		309.3
Total Take (%)	4.4%	5.7%	13.1%	10.0%	12.0%	10.5%	12.3%	13.1%	5.2%	2.6%	5.6%	5.6%		100%
Cumulative Take	13.6	31.1	71.6	102.5	139.7	172.1	210.2	250.7	266.7	274.7	292.0	309.3		
Cum Take (%)	4.4%	10.1%	23.2%	33.1%	45.2%	55.6%	68.0%	81.0%	86.2%	88.8%	94.4%	100.0%		

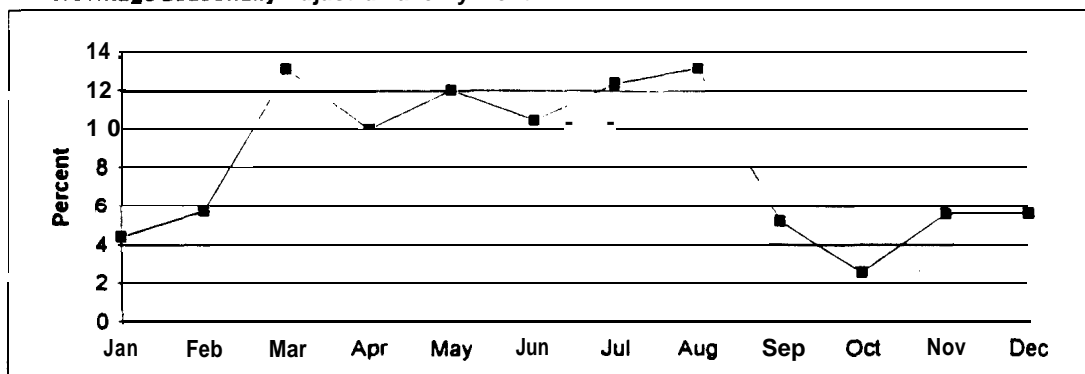
*HARBOR SEAL HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	70	37.6%	93.3	37.6%
Adult Female	34	18.3%	45.3	18.3%
Adult Unknown Sex	16	8.6%	21.3	8.6%
Juvenile Male	10	5.4%	13.3	5.4%
Juvenile Female	1	0.5%	1.3	0.5%
Juvenile Unknown Sex	23	12.4%	30.7	12.4%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	0.5%	1.3	0.5%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	31	16.7%	41.3	16.7%
Total	186	100.0%	240.0	100.0%

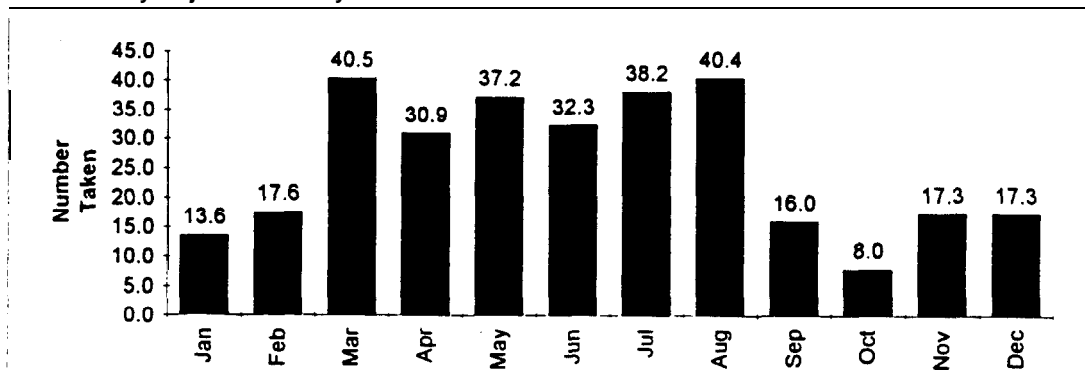
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1993.

FIGURE 34. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: YAKUTAT, 1992

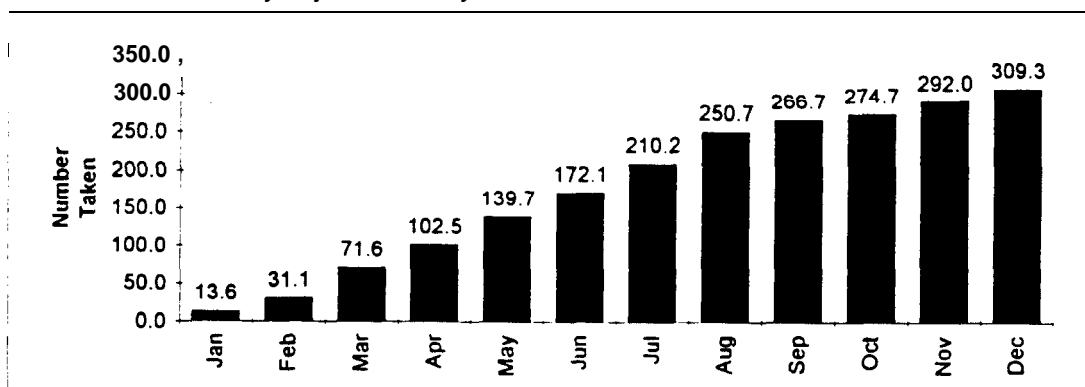
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1993.





## NORTH PACIFIC RIM

TABLE 35. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: CHENEGA BAY, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	23
Surveyed Households	20
Sampling Fraction	87.0%
Sample Household Members	71
Estimated Household Members	81.7

SEA LION HARVEST AND USE INFORMATION

Percent Of **Native** Households:  
 used 70.0%  
 Hunted 20.0%  
 Harvested 20.0%  
 Received 65.0%  
 Gave Away 30.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	6.9
Total Number Struck and Lost	1.2
Total Number Taken	8.1
Number Harvested Per Capita	0.08

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	1	0	0	0	0	0	0	0	0	1	0	2	6
Struck and Lost	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Total Take	2	1	0	0	0	0	0	0	0	0	2	0	2	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.3	6.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2
Total Take	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	2.3	8.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0		6.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0		1.2
Total Take	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0		8.1
Total Take (%)	42.93	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.7%	0.0%		100%
Cumulative Take	3.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	8.1	8.1		
Cum. Take (%)	42.0%	64.3%	64.3%	64.3%	64.3%	64.3%	64.3%	64.3%	64.3%	64.3%	100.0%	100.0%		

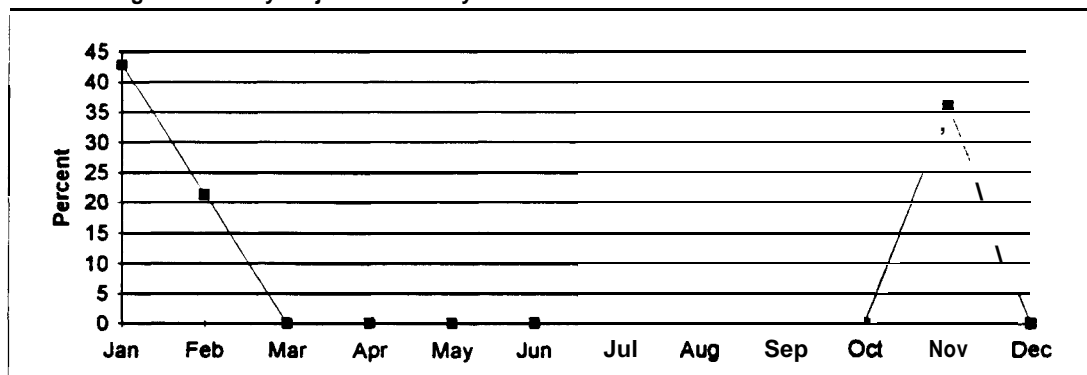
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)		Estimated By Community (Expanded)	
		Percent		Percent
Adult Male	1	16.7%	1.2	16.7%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	1	16.7%	1.2	16.7%
Juvenile Female	1	16.7%	1.2	16.7%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	16.7%	1.2	16.7%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	2	33.3%	2.3	33.3%
Total	6	100.0%	6.9	100.0%

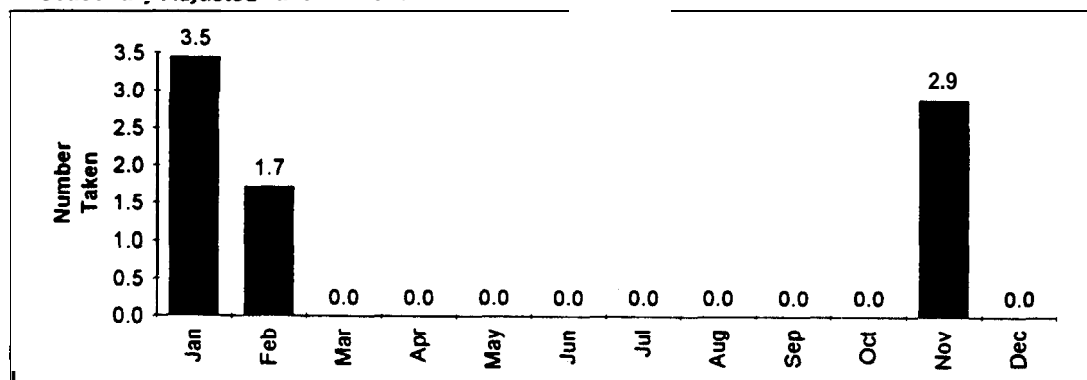
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chenege Bay IRA Council, 1993.

FIGURE 35. SEA LION (*Eumotopias jubatus*) TAKE ESTIMATES: CHENEGA BAY, 1992

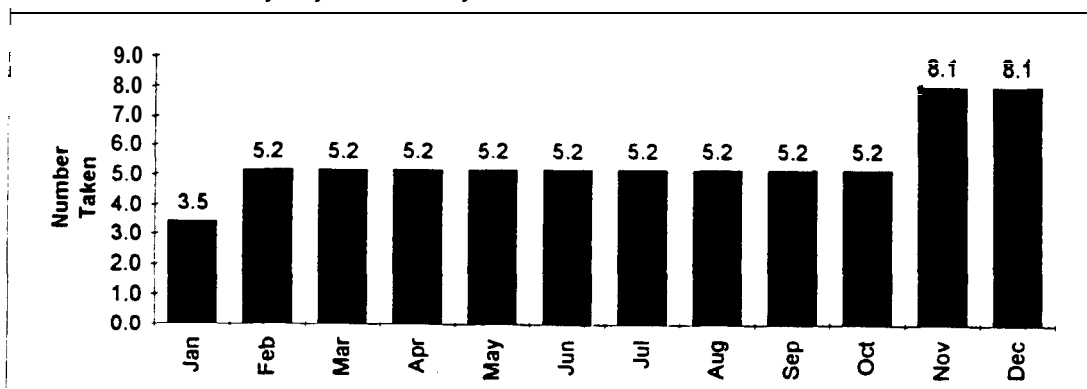
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chenega Bay IRA Council, 1993.

**TABLE 36. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CHENEGA BAY, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	23
Surveyed Households	20
Sampling Fraction	87.0%
Sample Household Members	71
Estimated Household Members	81.7

*HARBOR SEAL HARVEST AND USE INFORMATION*

Percent Of **Native Households:**  
*used* 65.0%  
 Hunted 30.0%  
 Harvested 25.0%  
 Received 65.0%  
 Gave Away 30.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested	42.0
Total Number Struck and Lost	2.3
Total Number Taken	44.9
Number Harvested Per Capita	0.52

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	fib	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	4	0	0	0	0	0	0	0	1	2	6	4	20	37
Struck and Lost	0	0	0	1	0	0	0	0	0	0	0	0	1	2
Total Take	4	0	0	1	0	0	0	0	1	2	6	4	21	39
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3	6.9	4.6	23.0	42.6
Struck and Lost	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3
Total Take	4.6	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.2	2.3	6.9	4.6	24.2	44.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.0	16.0	10.0		42.6
Struck and Lost	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.3
Total Take	10.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	2.5	5.0	15.0	10.0		44.9
Total Take (%)	22.3%	0.0%	0.0%	5.1%	0.0%	0.0%	0.0%	0.0%	5.6%	11.2%	33.5%	22.3%		100%
Cumulative Take	10.0	10.0	10.0	12.3	12.3	12.3	12.3	12.3	14.6	19.6	34.8	44.9		
Cum. Take (%)	22.3%	22.3%	22.3%	27.5%	27.5%	27.5%	27.5%	27.5%	33.0%	44.2%	77.7%	100.0%		

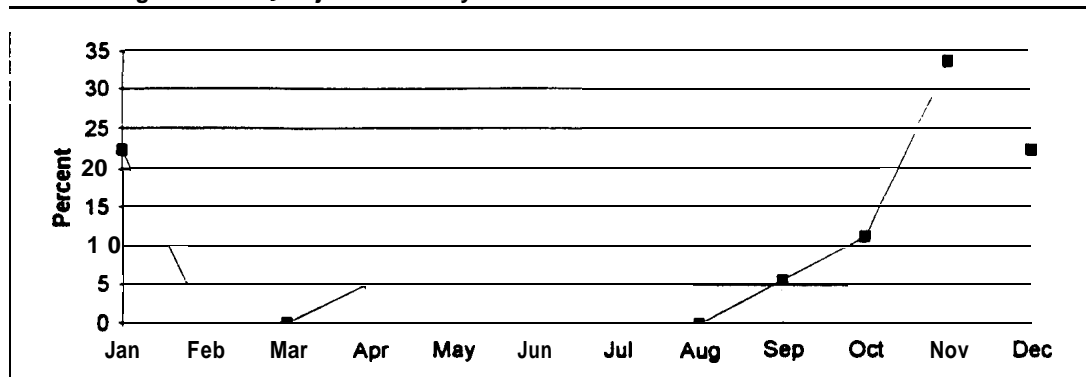
*HARBOR SEAL HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Perwnt	By Community	Perwnt
	(Unexpanded)		(Expanded)	
Adult Male	5	13.5%	5.8	13.5%
Adult Female	1	2.7%	1.2	2.7%
Adult Unknown Sex	1	2.7%	1.2	2.7%
Juvenile Male	3	8.1%	3.5	8.1%
Juvenile Female	5	13.5%	5.8	13.5%
Juvenile Unknown Sex	1	2.7%	1.2	2.7%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	2.7%	1.2	2.7%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	20	54.1%	23.0	54.1%
Total	37	100.0%	42.6	100.0%

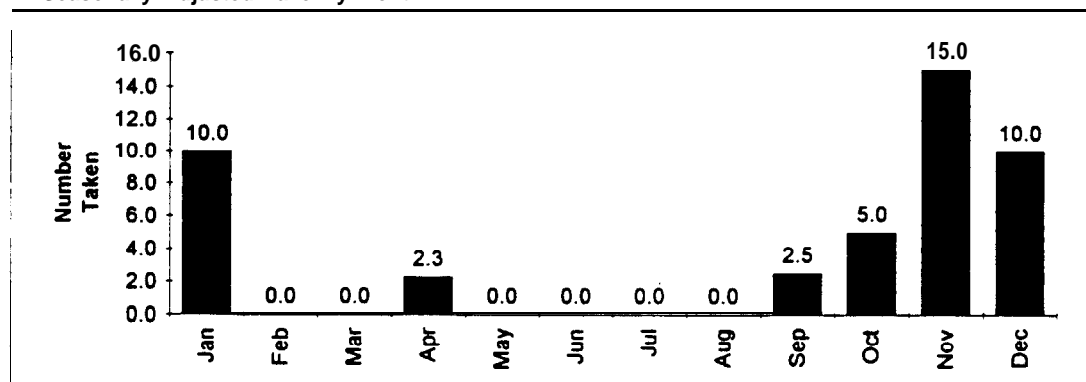
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chenega Bay IRA Council, 1993.

FIGURE 36. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CHENEGA BAY, 1992

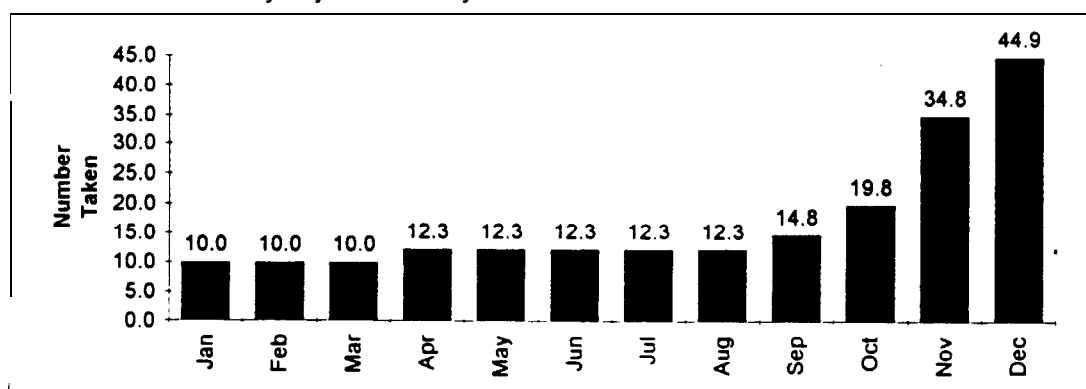
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chenega Bay IRA Council, 1993.

**TABLE 37. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: CORDOVA, 1992**

*SAMPLING DESIGN: TWO STRATA*

	Active	Other	Total
Total Native Households	15	166	181
Surveyed Households	12	30	42
Sampling Fraction	80.0%	18.1%	23.2%
Sample Household Members	34	81	115
Estimated Household Members	42.5	446.2	490.7

*SEA LION HARVEST AND USE INFORMATION*

**Percent** Of Native Households:

Used 2.4 %  
Hunted 0.0%  
Harvested 0.0%  
Received 2.4%  
Gave Away 0.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 0.0  
Total Number Struck and Lost 0.0  
Total Number Taken 0.0  
Number Harvested Per Capita 0.00

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (X)	---	---	---	---	---	---	---	---	---	---	---	---		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take(%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

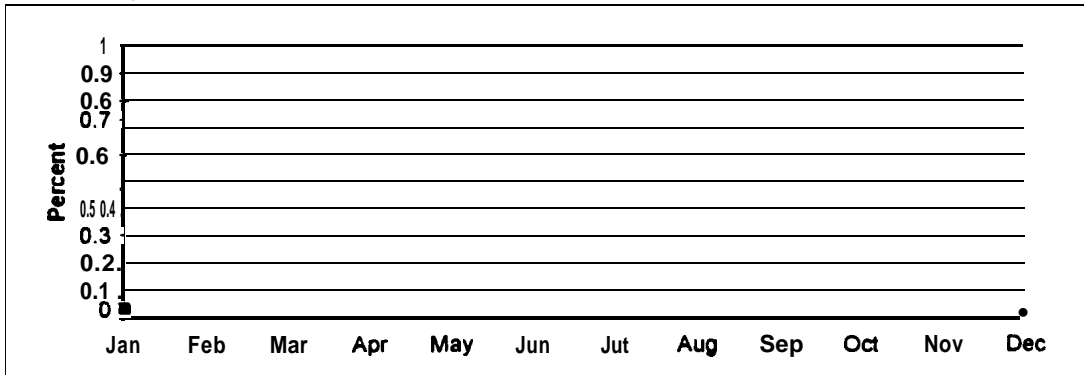
*SEA LION HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Perwnr	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

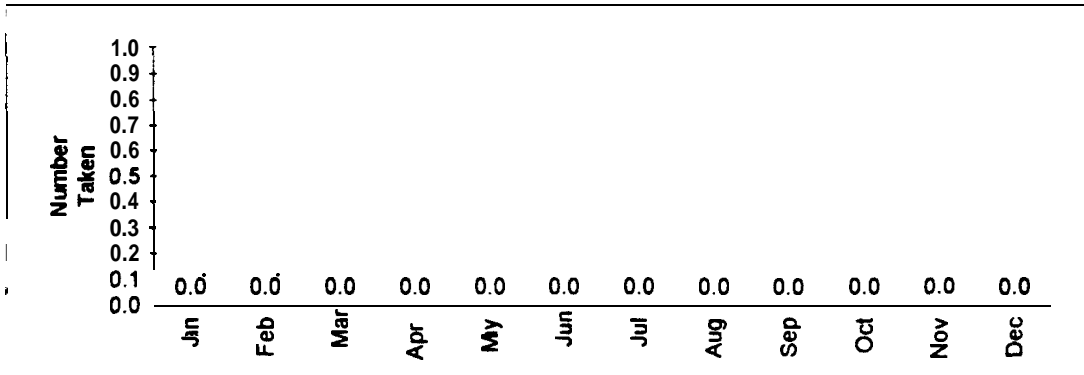
SOURCE: Alaska Department of Fish and Game. Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Traditional Village of Eyak, 1993

FIGURE 37. SEA LION(*Eumetopias jubatus*) TAKE ESTIMATES: CORDOVA, 1992

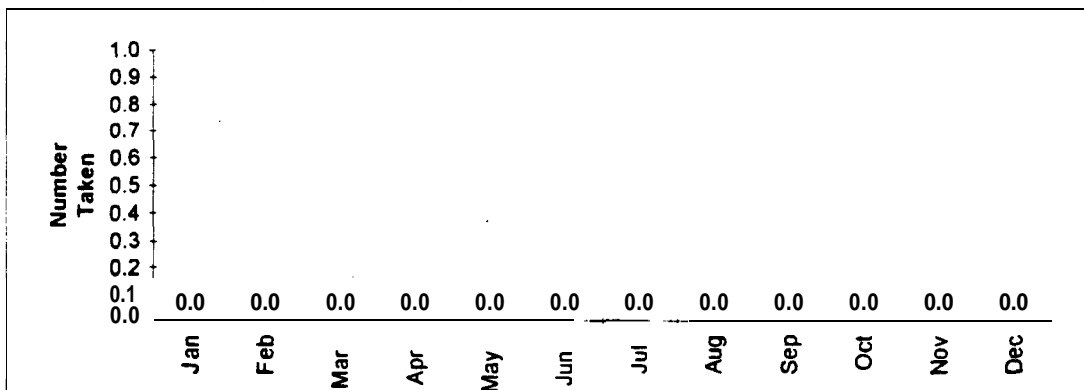
A. Percentage seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Traditional Village of Eyak, 1993.

TABLE 38. HARBO R SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CORDOVA, 1992

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	15	188	181
Surveyed Households	12	30	42
Sampling Fraction	80.0%	18.1%	23.2%
Sample Household Members	34	81	115
Estimated Household Members	42.5	448.2	490.7

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:  
 used 47.8%  
 Hunted 28.8%  
 Harvested 23.8%  
 Received 45.2%  
 Gave Away 28.8%

Estimated Community Harvest and Take (Expanded):  
 Total Number Harvested 103.8  
 Total Number Struck and Lost 8.8  
 Total Number Taken 112.5  
 Number Harvested Per Capita 0.21

HARBOR SEAL HARVEST BY SEASON	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	0	0	0	4	0	0	2	14	13	23	18	6	83
Struck and Lost	0	0	0	0	0	0	0	0	1	4	1	1	0	7
Total Take	3	0	0	0	4	0	0	2	15	17	24	19	6	90
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.8	0.0	0.0	0.0	5.0	0.0	0.0	2.5	17.5	16.3	28.8	22.5	7.5	103.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.0	1.3	1.3	0.0	8.8
Total Take	3.8	0.0	0.0	0.0	5.0	0.0	0.0	2.5	18.8	21.3	30.0	23.8	7.5	112.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.0	0.0	0.0	0.0	5.4	0.0	0.0	2.7	18.9	17.5	31.0	24.3		103.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.0	1.3	1.3		8.8
Total Take	4.0	0.0	0.0	0.0	5.4	0.0	0.0	2.7	20.1	22.5	32.2	25.5		112.5
Total Take (%)	3.6%	0.0%	0.0%	0.0%	4.8%	0.0%	0.0%	2.4%	17.9%	20.0%	28.7%	22.7%		100%
Cumulative Take	4.0	4.0	4.0	4.0	9.4	9.4	9.4	12.1	32.2	54.8	67.0	112.5		
Cum. Take (%)	3.6%	3.6%	3.6%	3.6%	8.4%	8.4%	8.4%	10.8%	28.7%	48.7%	77.3%	100.0%		

HARBOR SEAL HARVEST BY AGE AND SEX

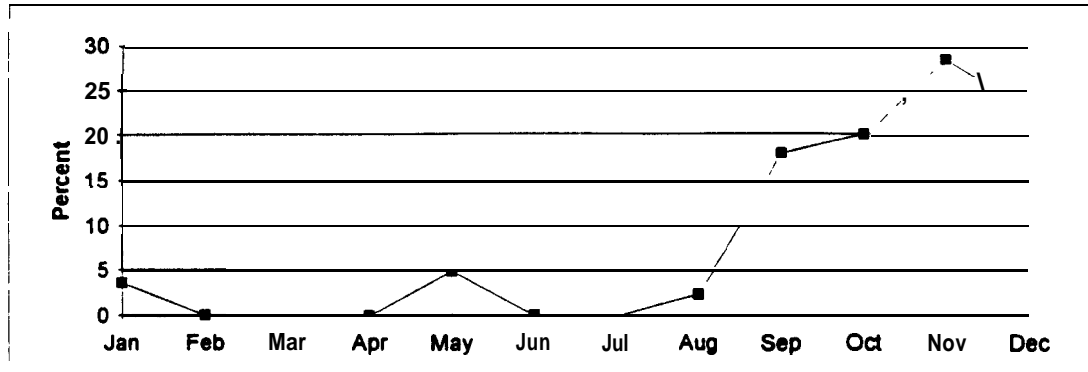
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	55	88.3%	88.8	88.3%
Adult Female	14	18.9%	17.5	18.9%
Adult Unknown Sex	3	3.8%	3.8	3.8%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	3	3.8%	3.8	3.8%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	2	2.4%	2.5	2.4%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	8	7.2%	7.5	7.2%
Total	83	100.0%	103.8	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska, with assistance from the Traditional Village of Eyak, 1993.

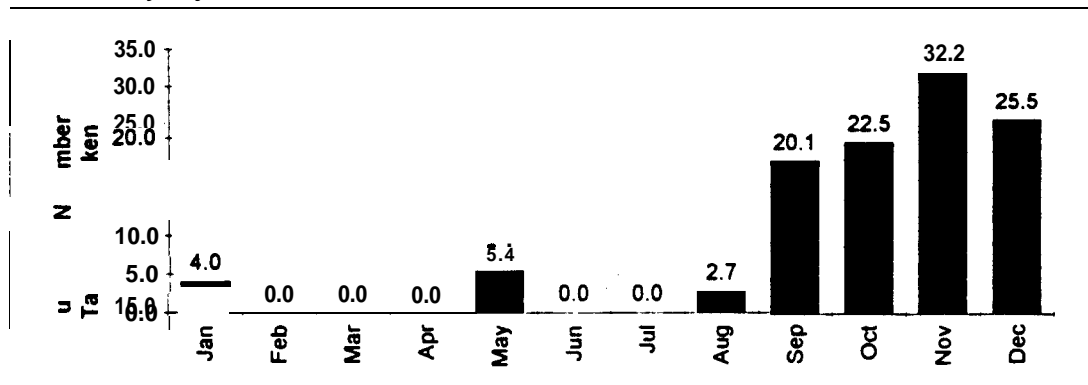


FIGURE 38. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CORDOVA, 1992

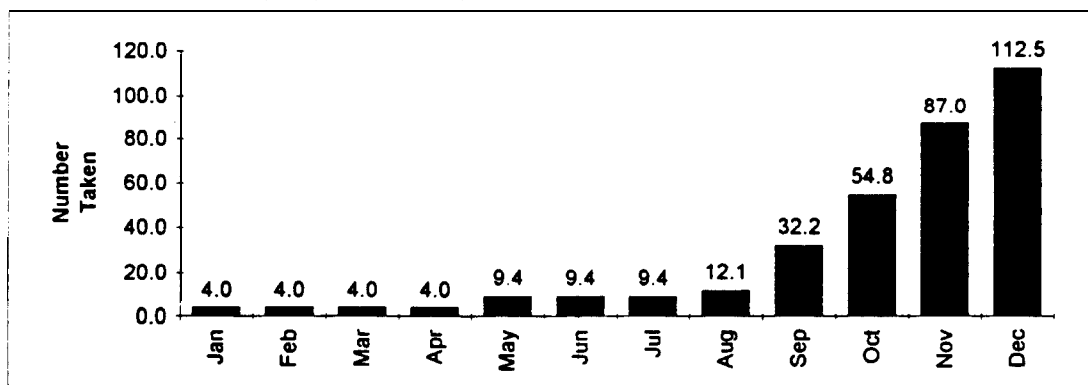
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Traditional Village of Eyak. 1993.

**TABLE 39. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: NANWALEK, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	38
Surveyed Households	30
Sampling Fraction	78.9%
Sample Household Members	125
Estimated Household Members	158.3

*SEA LION HARVEST AND USE INFORMATION*

**Percent** Of **Native** Households:

Used 03.3%  
Hunted 10.0%  
Harvested 6.7%  
Received 60.0%  
Gave Away 13.3%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 8.3  
Total Number Struck and Lost 0.0  
Total Number Taken 6.3  
Number Harvested Per Capita 0.04

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	1	0	2	0	2	0	5
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	1	0	2	0	2	0	5
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.5	0.0	2.5	0.0	6.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Takt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.5	0.0	2.5	0.0	6.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.5	0.0	2.5		6.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Takt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.5	0.0	2.5		6.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	40.0%	0.0%	40.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	3.0	3.6	6.3		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	20.0%	60.0%	60.0%	100.0%		

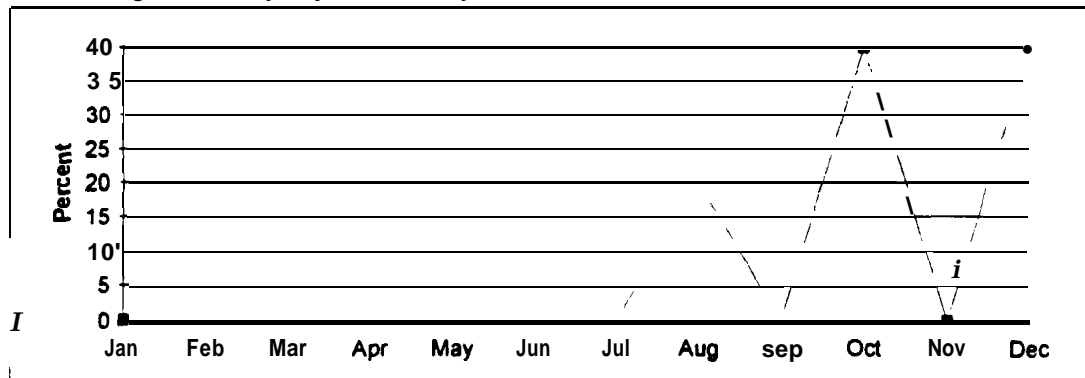
*SEA LION HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	4	80.0%	5.1	80.0%
Adult Unknown Sex	1	20.0%	1.3	20.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	5	100.0%	6.3	100.0%

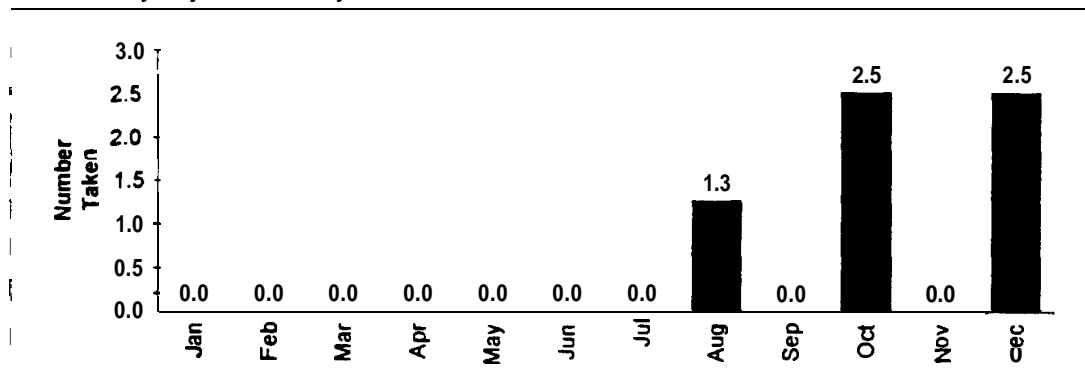
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 1993.

FIGURE 39. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: NANWALEK, 1992

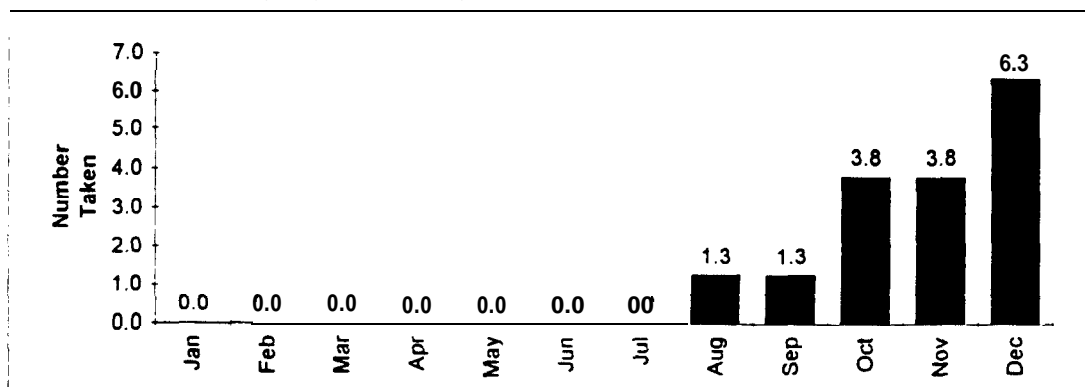
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division 01 Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 1993.

TABLE 40. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: NANWALEK, 1992**SAMPLING DESIGN: CENSUS**

Total Native Households	38
Surveyed Households	30
Sampling Fraction	70.9%
Sample Household Members	125
Estimated Household Members	158.3

**HARBOR SEAL HARVEST AND USE INFORMATION***Percent Of Native Households:*

Used 76.7%  
Hunted 26.7%  
Harvested 20.0%  
Received 73.3%  
Gave Away 36.7%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 27.9  
Total Number Struck and Lost 0.0  
Total Number Taken 27.9  
Number Harvested Per Capita 0.18

**HARBOR SEAL HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	2	4	5	3	0	7	1	0	0	0	22
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	2	4	5	3	0	7	1	0	0	0	22
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.5	5.1	6.3	3.6	0.0	8.9	1.3	0.0	0.0	0.0	27.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	2.5	5.1	6.3	3.6	0.0	8.9	1.3	0.0	0.0	0.0	27.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.5	5.1	6.3	3.6	0.0	8.9	1.3	0.0	0.0		27.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	2.5	5.1	6.3	3.6	0.0	8.9	1.3	0.0	0.0		27.9
Total Take (%)	0.0%	0.0%	0.0%	9.1%	18.2%	22.7%	13.6%	0.0%	31.6%	4.5%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	2.5	7.6	13.9	17.7	17.7	26.6	27.9	27.9	27.9		
Cum. Take (%)	0.0%	0.0%	0.0%	9.1%	27.3%	50.0%	63.6%	63.6%	95.5%	100.0%	100.0%	100.0%		

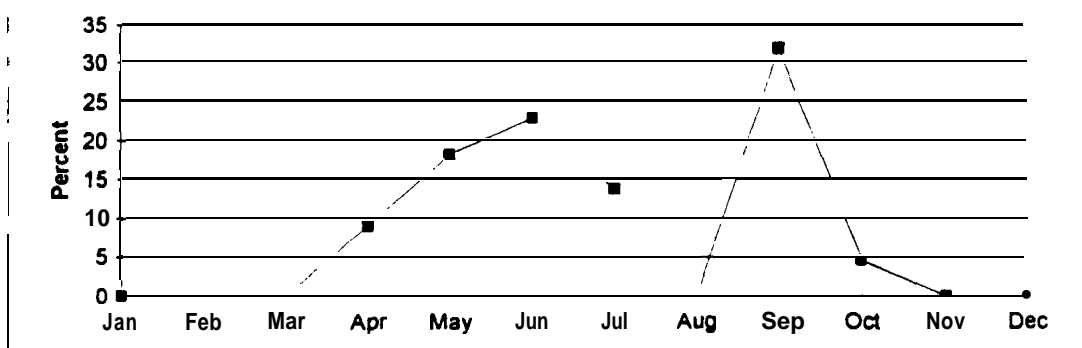
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	8	36.4%	10.1	36.4%
Adult Female	2	9.1%	2.5	9.1%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	4	18.2%	5.1	18.2%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	8	36.4%	10.1	36.4%
Total	22	100.0%	27.9	100.0%

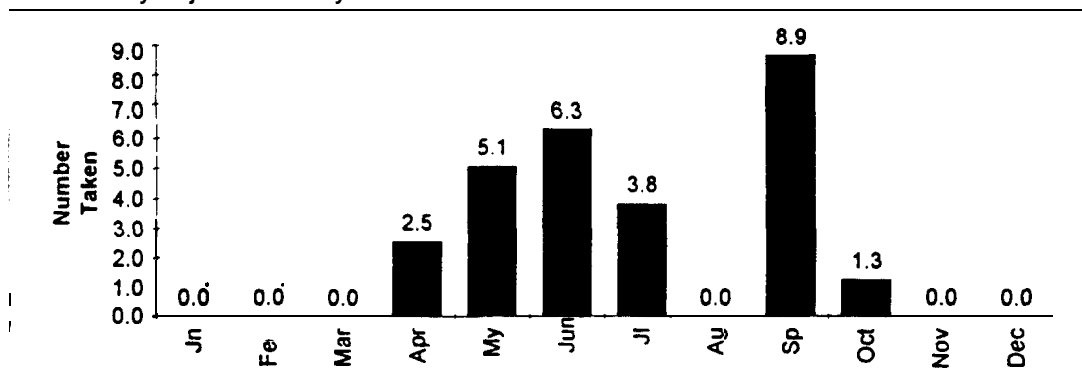
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with • ssrstanw from the Nanwalek Traditional Council and English Bay Corporation, 1993.

FIGURE 40. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: NANWALEK, 1992

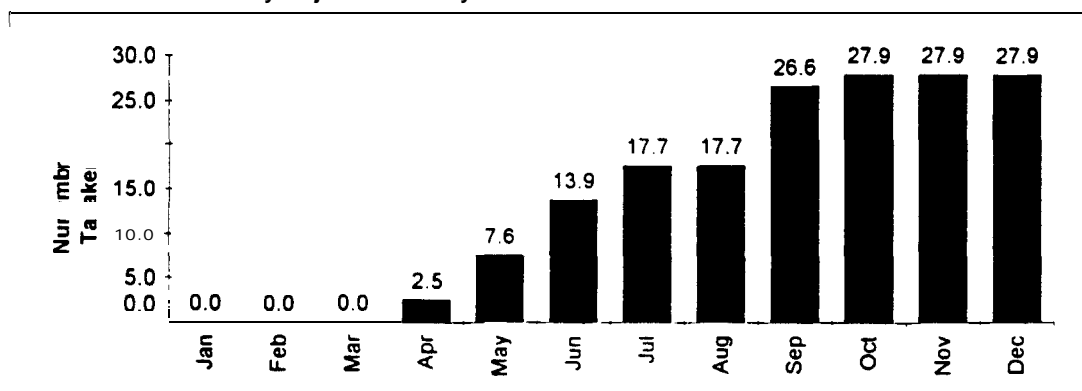
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 1993

**TABLE 41. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PORT GRAHAM, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	56
Surveyed Households	48
Sampling Fraction	85.7%
Sample Household Members	138
Estimated Household Members	161.0

**SEA LION HARVEST AND USE INFORMATION**

*Percent Of Native Households:*

used **20.8%**  
Hunted 0.3%  
Harvested 2.1%  
Received **20.8%**  
Gave Away 10.4%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested **2.3**  
Total Number Struck and Lost **1.2**  
Total Number Taken **3.5**  
Number Harvested Per Capita **0.01**

SEA LION HARVEST BY SEASON													Unknown	Total
Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sop	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	0	1	0	0	0	0	0	0	0	0	2
Struck and Lost	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total Take	0	0	2	0	1	0	0	0	0	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
Struck and Lost	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Total Take	0.0	0.0	2.3	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.3
Struck and Lost	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.2
Total Take	0.0	0.0	2.3	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3.5
Total Take(%)	0.0%	0.0%	65.7%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	2.3	2.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5		
Cum. Take(%)	0.0%	0.0%	66.7%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

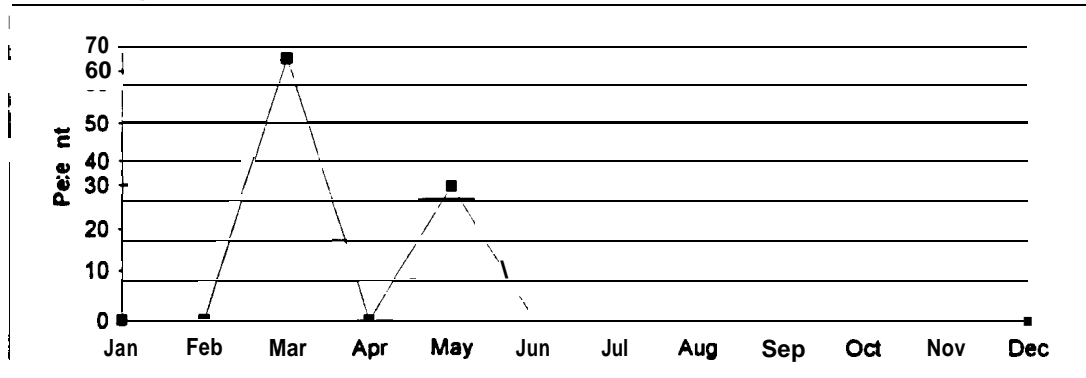
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	2	100.0%	2.3	100.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	2.3	100.0%

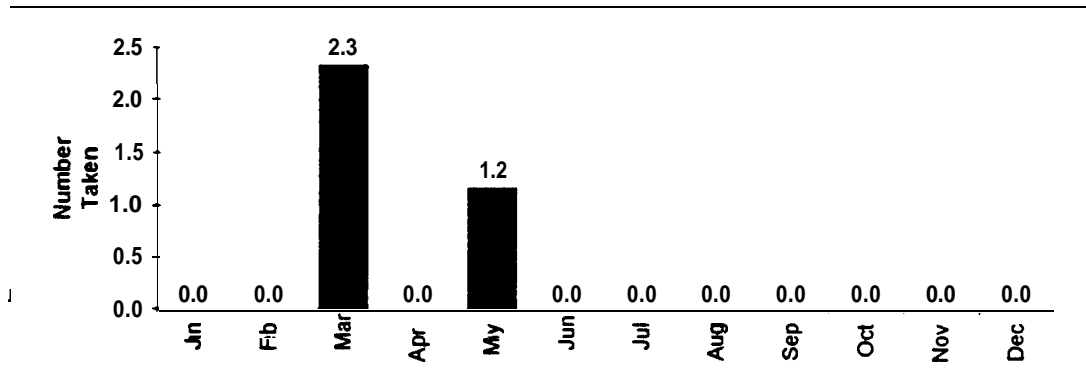
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation, 1993.

FIGURE 41. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PORT GRAHAM, 1992

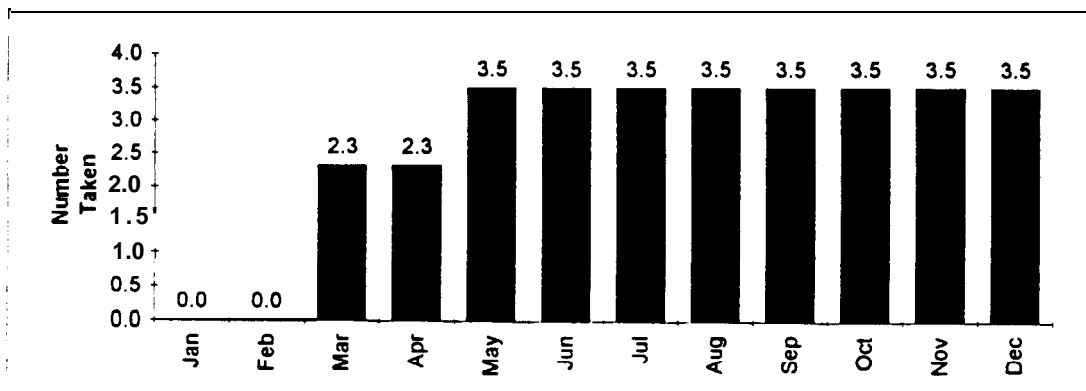
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation, 1993.

**TABLE 42. HARBOR SEAL (*Phocavitulina*) HARVEST AND TAKE ESTIMATES: PORT GRAHAM, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	56
Surveyed Households	48
Sampling Fraction	85.7%
Sample Household Members	138
Estimated Household Members	161.0

*HARBOR SEAL HARVEST AND USE INFORMATION*

*Percent Of Native Households:*  
 used 93.8%  
 Hunted 31.3%  
 Harvested 29.2%  
 Received 87.5%  
 Gave Away 41.7%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested	56.0
Total Number Struck and Lost	4.7
Total Number Taken	60.7
Number Harvested Per Capita	0.35

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	5	14	2	1	0	0	3	7	5	8	1	2	48
Struck and Lost	0	0	2	0	0	0	0	1	0	1	0	0	0	4
Total Take	0	5	16	2	1	0	0	4	7	6	6	1	2	52
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	5.6	16.3	2.3	1.2	0.0	0.0	3.5	8.2	5.6	9.3	1.2	2.3	56.0
Struck and Lost	0.0	0.0	2.3	0.0	0.0	0.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0	4.7
Total Take	0.0	5.8	16.7	2.3	1.2	0.0	0.0	4.7	8.2	7.0	9.3	1.2	2.3	60.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	6.1	17.0	2.4	1.2	0.0	0.0	3.7	8.5	6.1	9.7	1.2		56.0
Struck and Lost	0.0	0.0	2.3	0.0	0.0	0.0	0.0	1.2	0.0	1.2	0.0	0.0		4.7
Total Take	0.0	6.1	19.4	2.4	1.2	0.0	0.0	4.8	8.5	7.3	9.7	1.2		60.7
Total Take (%)	0.0%	10.0%	31.9%	4.0%	2.0%	0.0%	0.0%	7.9%	14.0%	12.0%	16.1%	2.0%		100%
Cumulative Take	0.0	6.1	25.5	27.9	29.1	29.1	29.1	33.9	42.5	49.7	59.4	60.7		
Cum Take (%)	0.0%	10.0%	42.0%	46.0%	48.0%	48.0%	48.0%	55.9%	70.0%	81.9%	98.0%	100.0%		

*HARBOR SEAL HARVEST BY AGE AND SEX*

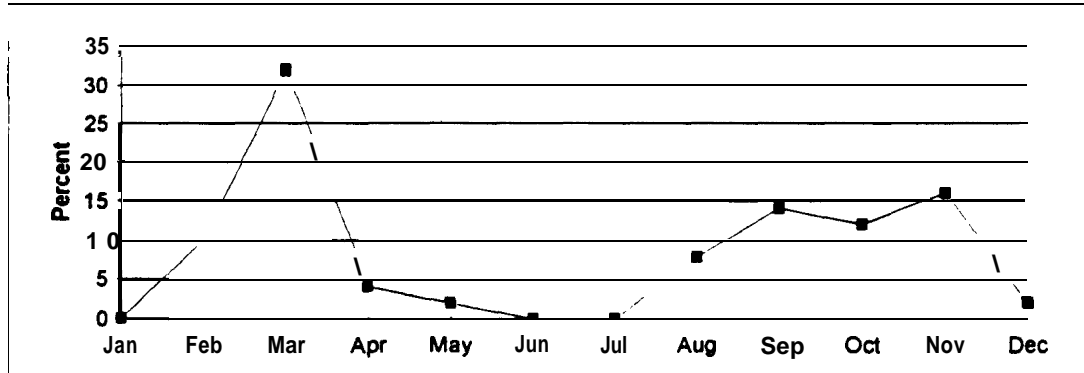
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	13	27.1%	15.2	27.1%
Adult Female	7	14.6%	8.2	14.6%
Adult Unknown Sex	16	33.3%	19.7	33.3%
Juvenile Male	2	4.2%	2.3	4.2%
Juvenile Female	3	6.3%	3.5	6.3%
Juvenile Unknown Sex	2	4.2%	2.3	4.2%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	2	4.2%	2.3	4.2%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	3	6.3%	3.5	6.3%
Total	48	100.0%	56.0	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation, 1993.

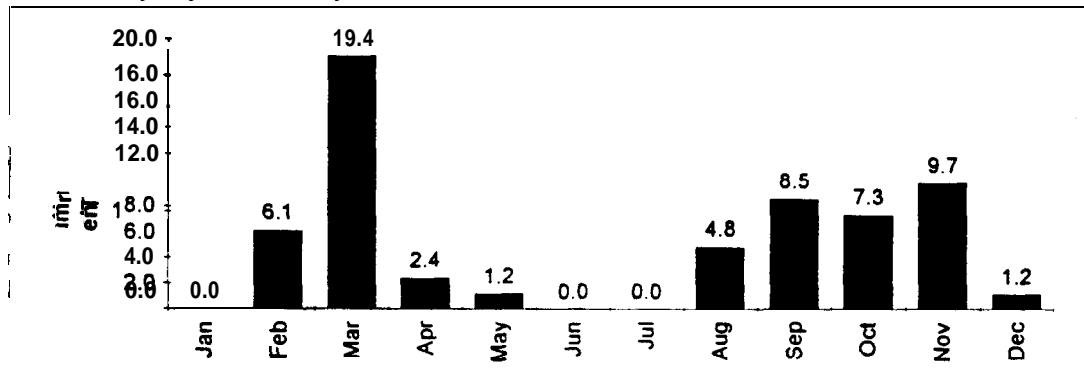


FIGURE 42. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PORT GRAHAM, 1992

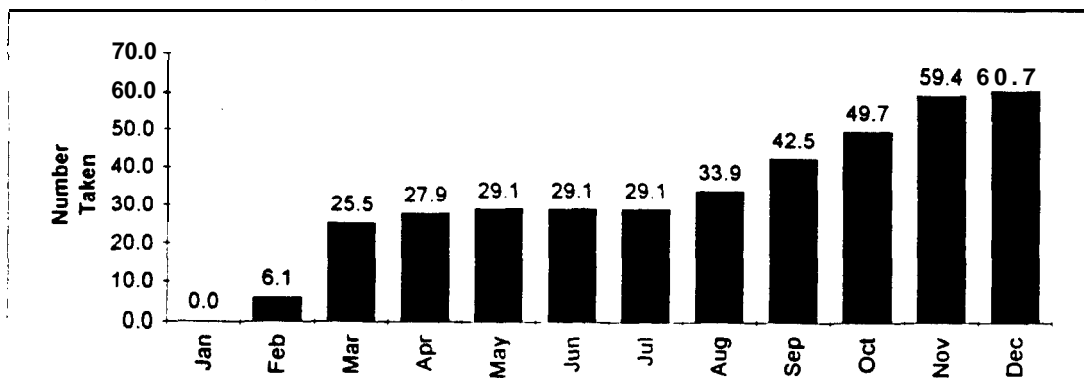
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Fort Graham Village Council and Port Graham Corporation, 1993

**TABLE 43. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SELDOVIA. 1992**

*SAMPLING DESIGN: TWO STRATA*

	Active	Other	Total
Total Native Households	6	40	54
Surveyed Households	6	30	36
Sampling Fraction	100.0%	62.5%	66.7%
Sample Household Members	15	93	108
Estimated Household Members	15.0	148.8	163.8

*SEA LION HARVEST AND USE INFORMATION*

**Percent** Of Native Households:

Used	2.0%
Hunted	0.0%
Harvested	0.0%
Received	2.8%
Gave Away	0.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

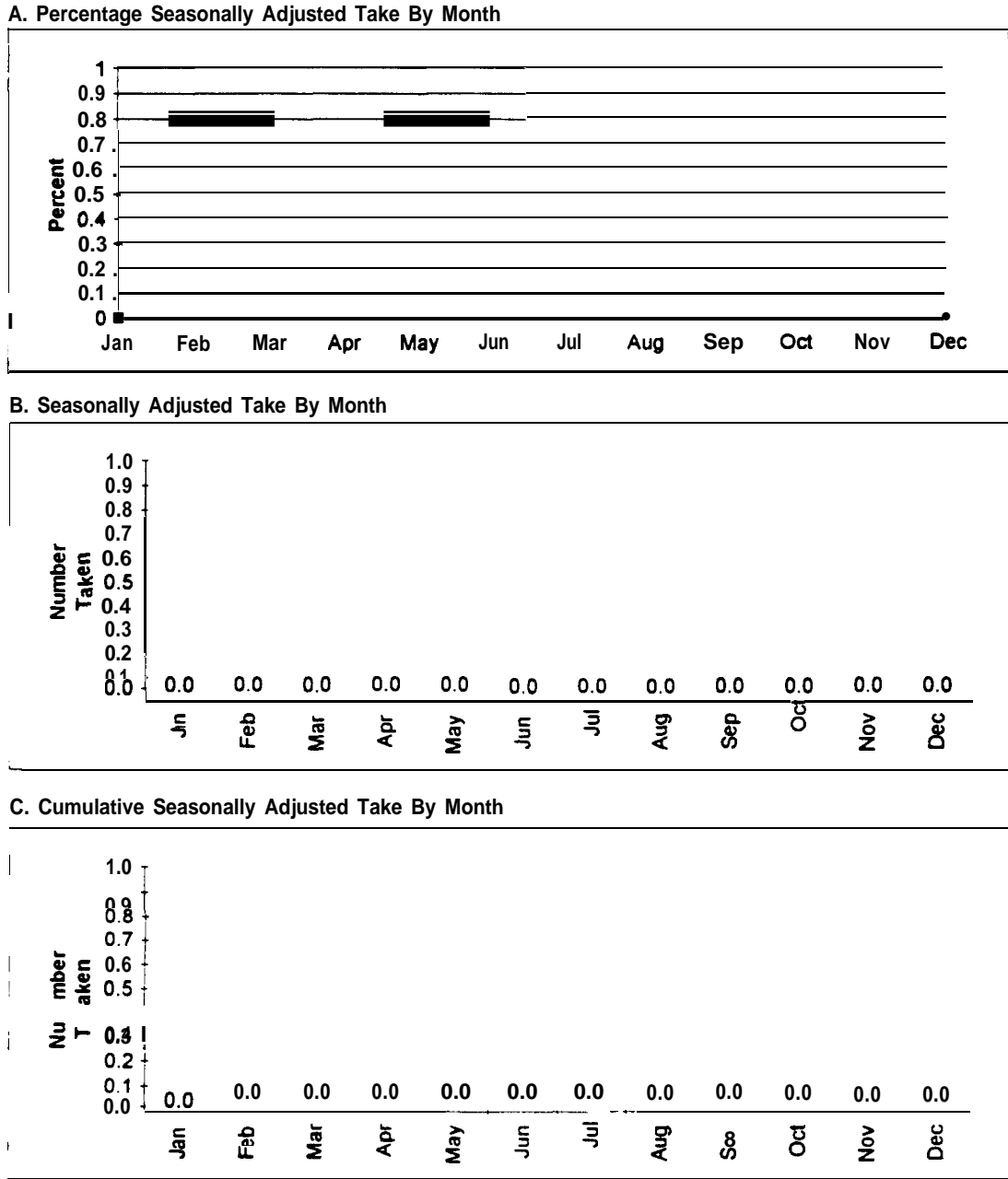
SEA LION HARVEST BY SEASON													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---		---	---	---	---	---			
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

*SEA LION HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	0	--	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	--

**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 1993.

FIGURE 43. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SELDOVIA, 1992



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study, and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 1993.

**TABLE 44. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SELDOVIA, 1992****SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	8	48	54
Surveyed Households	8	30	38
Sampling Fraction	100.0%	82.5%	88.7%
Sample Household Members	15	93	108
Estimated Household Members	15.0	148.8	183.8

**HARBOR SEAL HARVEST AND USE INFORMATION**

**Percent** Of Native Households:  
 used 22.2%  
 Hunted 18.7%  
 Harvested 13.9%  
 Received 13.9%  
 Gave Away 13.9%

Estimated Community **Harvest and Take (Expanded):**  
 Total Number Harvested 12.4  
 Total Number Struck and Lost 0.0  
 Total Number Taken 12.4  
 Number Harvested Per Capita 0.08

**HARBOR SEAL HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	2	0	1	0	0	0	0	0	1	1	2	2	10
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	2	0	1	0	0	0	0	0	1	1	2	2	10
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1	.0	2.0	0.0	1.6	0.0	0.0	0.0	0.0	1.6	1.0	2.0	3.2	12.4
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	1.0	2.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6	1.0	2.0	3.2	12.4
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	2.7	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.2	1.3	2.7		12.4
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	1.3	2.7	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.2	1.3	2.7		12.4
Total Take (%)	10.9%	21.7%	0.0%	17.4%	0.0%	0.0%	0.0%	0.0%	0.0%	17.4%	10.9%	21.7%		100%
Cumulative Take	1.3	4.0	4.0	6.2	6.2	6.2	6.2	6.2	6.2	8.4	9.7	12.4		
Cum. Take (%)	10.9%	32.6%	32.6%	60.0%	60.0%	50.0%	so.096	60.0%	60.0%	67.4%	76.3%	100.0%		

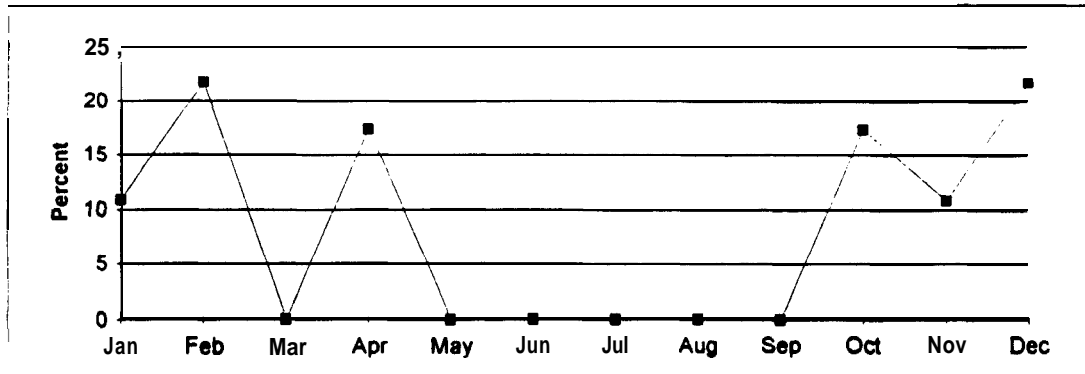
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	1	10.0%	1.0	8.1%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	20.0%	2.8	21.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	3	30.0%	3.8	29.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	4	40.0%	5.2	41.9%
Total	10	100.0%	12.4	100.0%

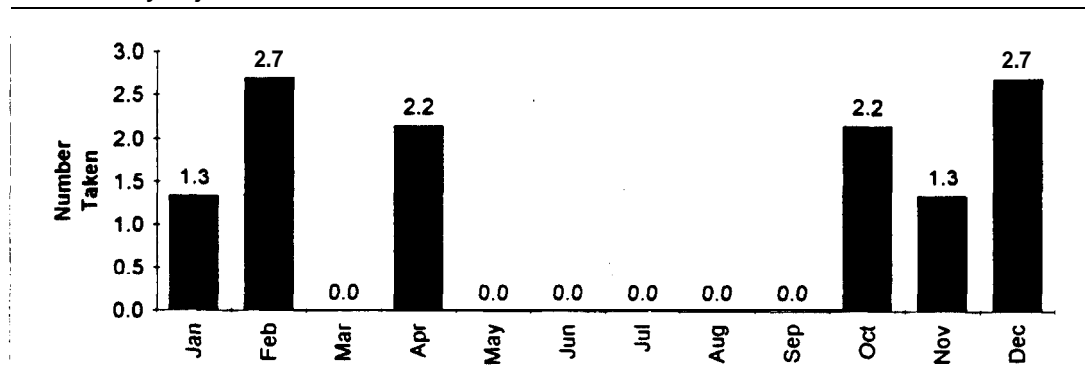
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 1993.

FIGURE 44. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SELDOVIA, 1992

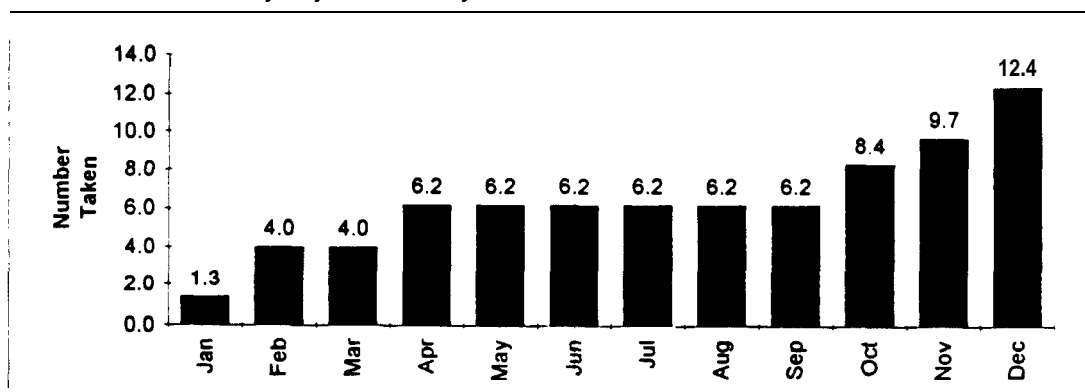
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 1993.

TABLE 49. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SEWARD, 1992

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	10	147	157
Surveyed Households	10	29	39
Sampling Fraction	100.0%	19.7%	24.8%
Sample Household Members	36	82	118
Estimated Household Members	36.0	415.7	451.7

SEA LION HARVEST AND USE INFORMATION

**Percent** Of Native Households:

Used 0.0 %  
Hunted 0.0%  
Harvested 0.0%  
Received 0.0%  
Gave Away 0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 0.0  
Total Number Struck and Lost 0.0  
Total Number Taken 0.0  
Number Harvested Per Capita 0.00

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

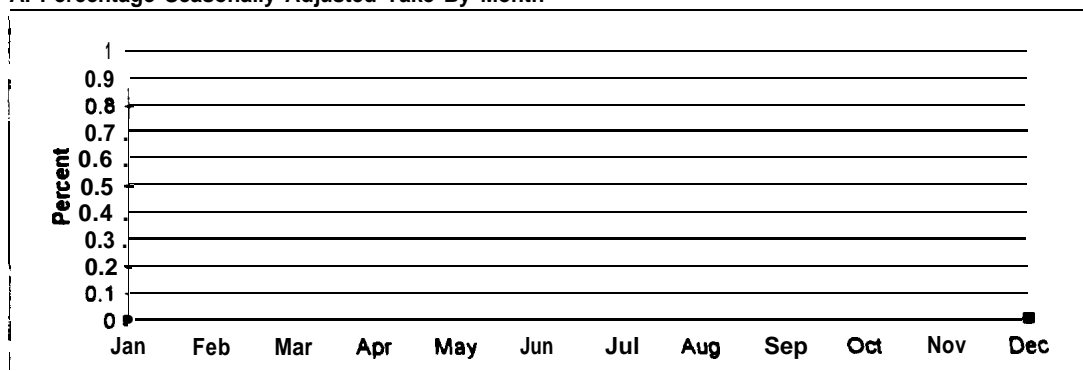
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	--	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	--	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	--	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	--	0.0	--
Female Unknown Age	0	--	0.0	---
Unknown Sex and Age	0	---	0.0	--
Total	0	---	0.0	---

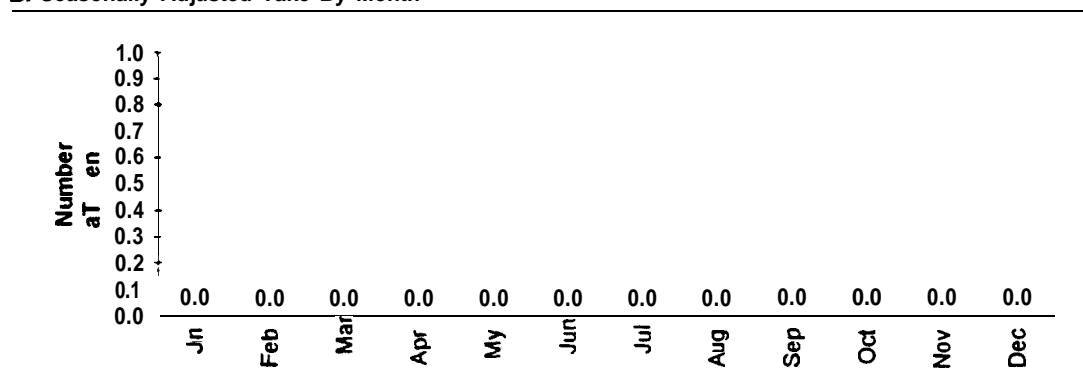
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qutekcah Native Tribe, 1993.

FIGURE 45. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SEWARD, 1992

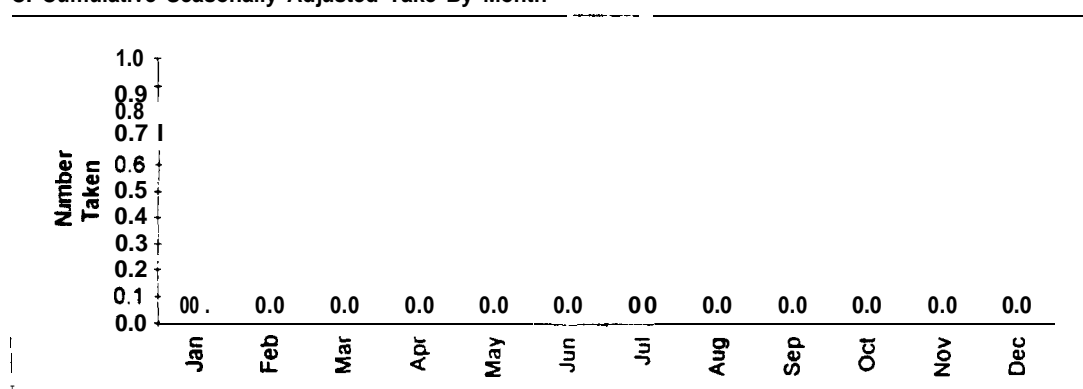
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qutekca Native Tribe, 1993.

**TABLE 46. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SEWARD, 1992**

SAMPLING DESIGN: **TWO** STRATA

	Active	Other	Total
Total Native Households	10	147	157
Surveyed Households	10	29	39
Sampling Fraction	100.0%	19.7%	24.8%
Sample Household Members	38	82	118
Estimated Household Members	36.0	415.7	451.7

**HARBOR SEAL HARVEST AND USE INFORMATION**

**Percent Of Native Households:**  
 Used 20.5%  
 Hunted 23.1%  
 Harvested 2.6%  
 Received 17.9%  
 Gave Away 2.6%

**Estimated Community Harvest and Take (Expanded):**  
 Total Number Harvested 2.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 2.0  
 Number Harvested Per Capita 0.00

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	0	0	0	0	0	0	0	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	1	0	0	0	0	0	0	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.0
Total Take (%)	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
Cum. Take (%)	50.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

**HARBOR SEAL HARVEST BY AGE AND SEX**

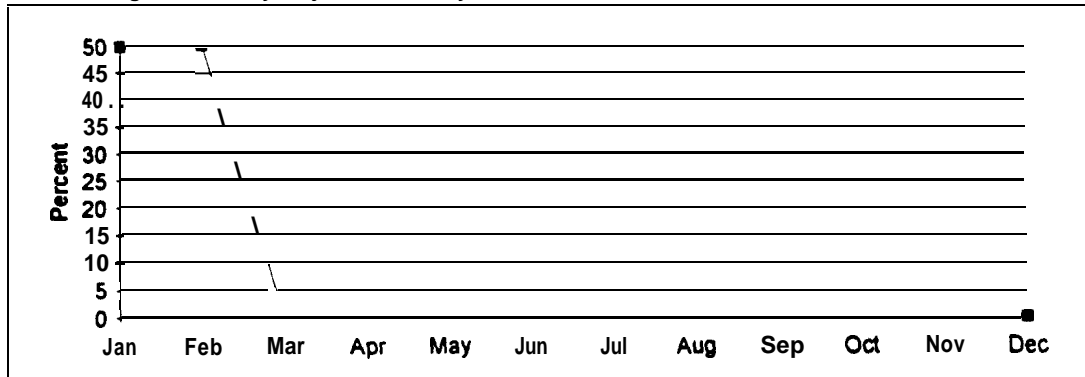
	Reported		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	1	50.0%	1.0	50.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	1	50.0%	1.0	50.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	2.0	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qutekcah Native Tribe, 1993.

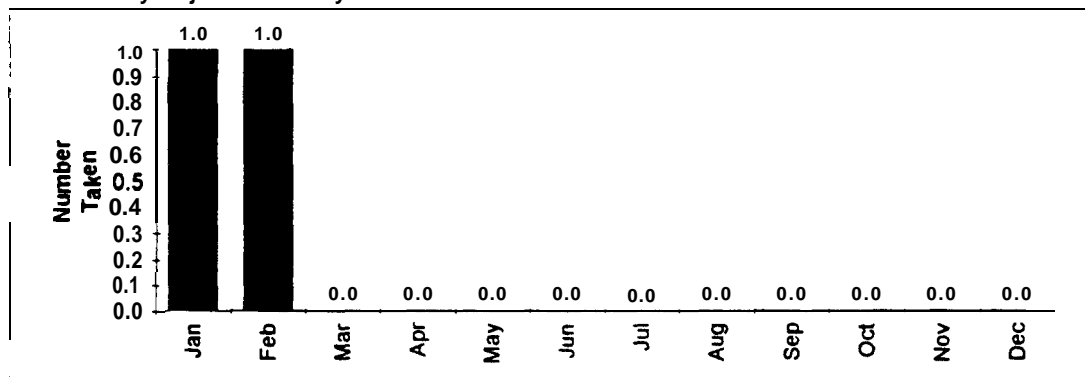


FIGURE 46. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SEWARD, 1992

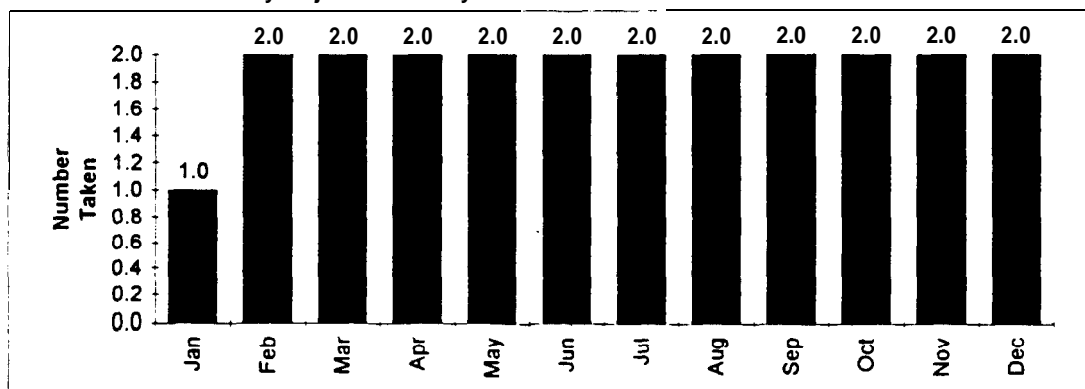
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qutekcah Native Tribe, 1993.

**TABLE 47. SEA LION (*Eumetopirs jubatus*) HARVEST AND TAKE ESTIMATES: TATITLEK, 1992**

**SAMPLING DESIGN: CENSUS**

Total Native Households	26
Surveyed Households	25
Sampling Fraction	96.2%
Sample Household Members	91
Estimated Household Members	94.6

**SEA LION HARVEST AND USE INFORMATION**

Percent Of Native **Households:**  
 used 52.0%  
 Hunted 12.0%  
 Harvested 8.0%  
 Received 48.0%  
 Gave Away 20.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	8.3
Total Number Struck and Lost	4.2
Total Number Taken	12.5
Number Harvested Per Capita	0.09

**SEA LION HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	0	1	0	1	0	0	0	1	2	1	0	1	8
Struck and Lost	1	1	0	0	0	0	0	0	0	0	0	0	2	4
Total Take	2	1	1	0	1	0	0	0	1	2	1	0	3	12
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	2.1	1.0	0.0	1.0	6.3
Struck and Lost	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.2
Total Take	2.1	1.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	2.1	1.0	0.0	3.1	12.5
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.2	0.0	1.2	0.0	1.2	0.0	0.0	0.0	1.2	2.4	1.2	0.0		6.3
Struck and Lost	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.2
Total Take	3.3	2.1	1.2	0.0	1.2	0.0	0.0	0.0	1.2	2.4	1.2	0.0		12.5
Total Take (%)	26.2%	16.7%	9.5%	0.0%	9.5%	0.0%	0.0%	0.0%	9.5%	19.0%	9.5%	0.0%		100%
Cumulative Take	3.3	5.3	6.5	6.5	7.7	7.7	7.7	7.7	0.9	11.3	12.5	12.5		
Cum. Take (%)	26.2%	42.9%	52.4%	52.4%	61.9%	61.9%	61.9%	61.9%	71.4%	90.5%	100.0%	100.0%		

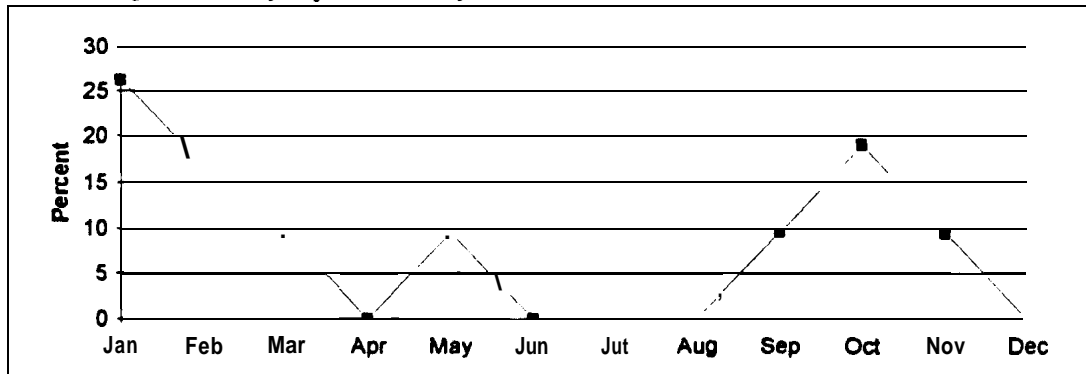
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	3	37.5%	3.1	37.5%
Adult Female	2	25.0%	2.1	25.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	3	37.5%	3.1	37.5%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	8	100.0%	8.3	100.0%

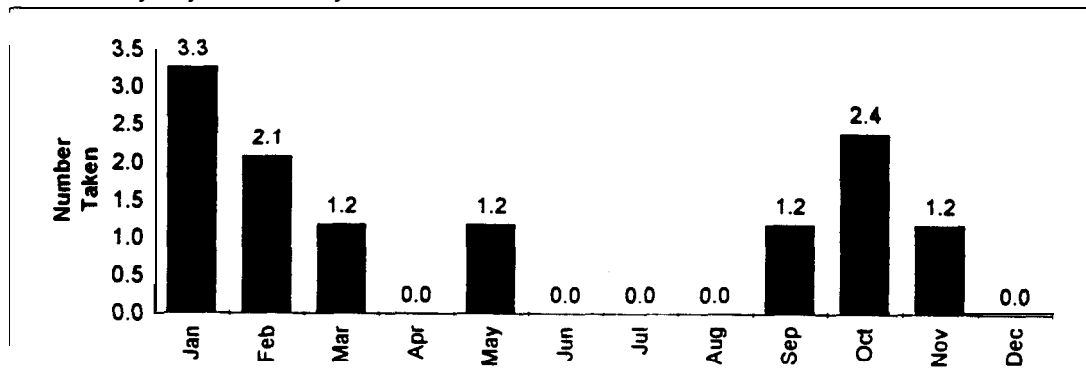
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tatitlek IRA Council, 1993.

FIGURE 47. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: TATITLEK, 1992

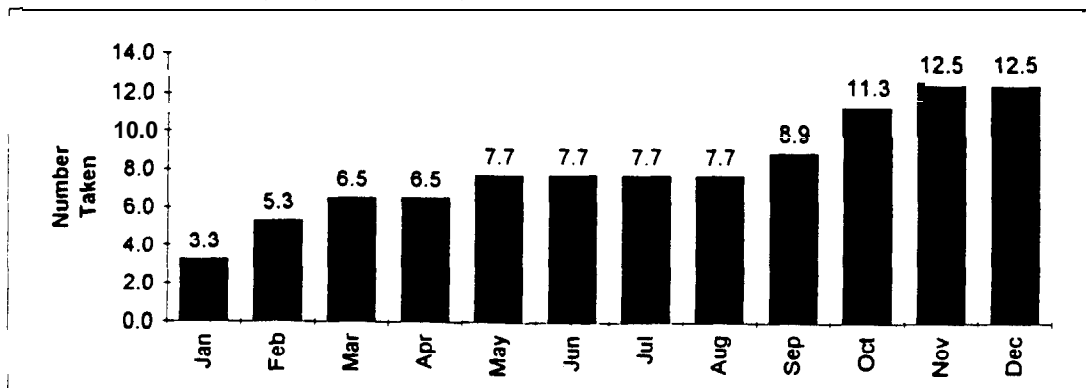
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tatitlek IRA Council. 1993.

**TABLE 48. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: TATITLEK, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	26
Surveyed Households	25
Sampling Fraction	96.2%
Sample Household Members	91
Estimated Household Members	94.6

*HARBOR SEAL HARVEST AND USE INFORMATION*

Percent Of **Native** Households:  
used 96.0%

Hunted 52.0%  
Harvested 44.0%  
Received 64.0%  
Gave Away 66.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 152.9  
Total Number Struck and Lost 17.7  
Total Number Taken 170.6  
Number Harvested Per Capita 1.62

*HARBOR SEAL HARVEST BY SEASON*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	12	6	9	8	11	1	1	5	3	16	7	21	45	147
Struck and Lost	0	0	4	7	0	0	2	3	0	0	0	0	1	17
Total Take	12	6	13	15	11	1	3	6	3	16	7	21	46	164
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	12.5	6.3	9.4	8.3	11.4	1.0	1.0	5.2	3.1	16.6	7.3	21.6	46.6	152.9
Struck and Lost	0.0	0.0	4.2	7.3	0.0	0.0	2.1	3.1	0.0	0.0	0.0	0.0	1.0	17.7
Total Take	12.5	6.3	13.5	15.6	11.4	1.0	3.1	6.3	3.1	16.6	7.3	21.6	47.6	170.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	16.0	12.0	13.5	12.0	16.5	1.5	1.5	7.5	4.5	24.0	10.5	31.5		152.9
Struck and Lost	0.0	0.0	4.4	7.7	0.0	0.0	2.2	3.3	0.0	0.0	0.0	0.0		17.7
Total Take	16.0	12.0	17.9	19.7	16.5	1.5	3.7	10.8	4.5	24.0	10.5	31.5		170.6
Total Take (X)	10.5%	7.0%	10.5%	11.6%	9.7%	0.9%	2.2%	6.3%	2.6%	14.1%	6.2%	16.5%		100%
Cumulative Take	16.0	30.0	47.9	67.6	84.1	65.6	69.3	100.1	104.6	126.6	139.1	170.6		
Cum. Take (%)	10.5%	17.6%	26.1%	39.6%	49.3%	50.2%	52.4%	56.7%	61.3%	75.4%	81.5%	100.0%		

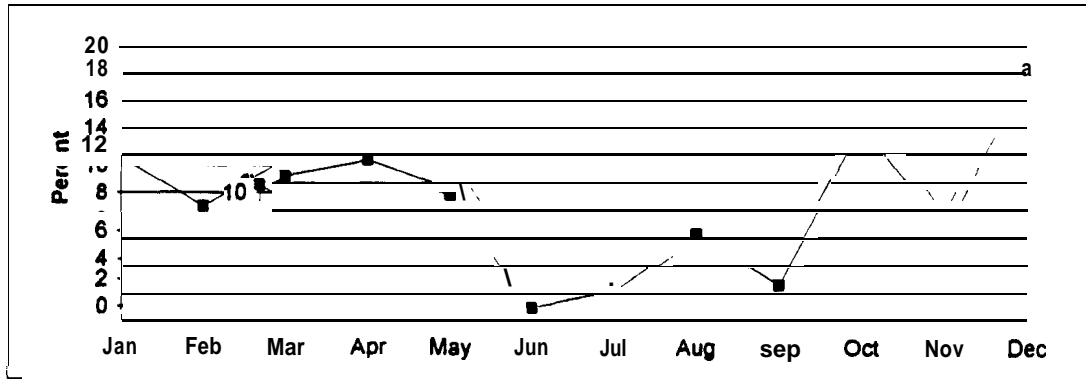
*HARBOR SEAL HARVEST BY AGE AND SEX*

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	19	12.9%	19.8	12.9%
Adult Female	14	9.5%	14.6	9.5%
Adult Unknown Sex	15	10.2%	15.6	10.2%
Juvenile Male	5	3.4%	5.2	3.4%
Juvenile Female	7	4.6%	7.3	4.8%
Juvenile Unknown Sex	16	10.9%	16.6	10.9%
Pup Male	2	1.4%	2.1	1.4%
Pup Female	1	0.7%	1.0	0.7%
Pup Unknown Sex	9	6.1%	9.4	6.1%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	59	40.1%	61.4	40.1%
Total	147	100.0%	152.9	100.0%

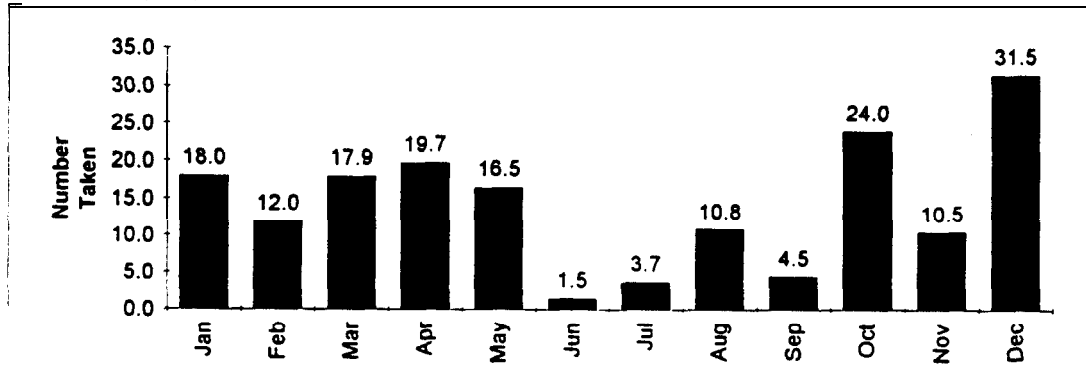
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tatitlek IRA Council, 1993.

FIGURE 49. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: TATITLEK, 1992

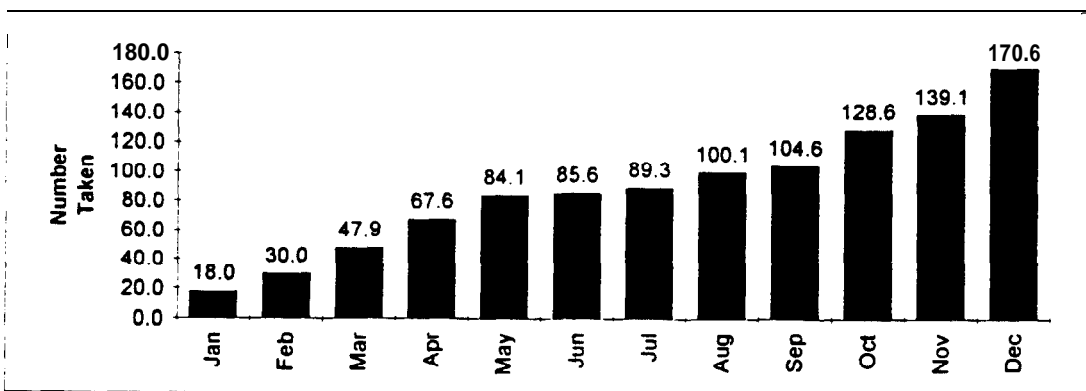
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tatitlek IRA Council, 1993.

**TABLE 49. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: VALDEZ, 1992**

**SAMPLING DESIGN:** RANDOM SAMPLE

Total Native Households	120
Surveyed Households	31
Sampling Fraction	25.8%
Sample Household Members	98
Estimated Household Members	371.8

**SEA LION HARVEST AND USE INFORMATION**

**Percent Of Native Households:**

Used	0.0 %
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

**SEA LION HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (W)	---	---	---	---	---			0.0	0.0	0.0	0.0	0.0		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

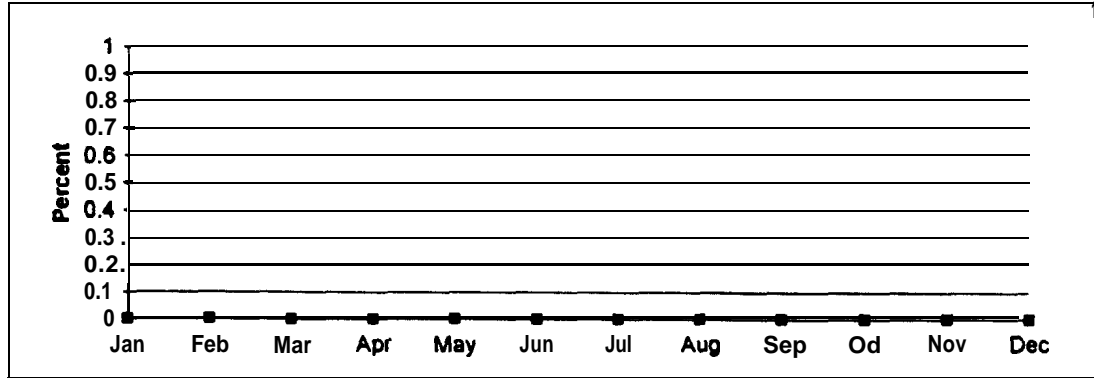
**SEA LION HARVEST BY AGE AND SEX**

	<b>Reported</b>		<b>Estimated</b>	
	<b>By Sample Percent</b>		<b>By Community Percent</b>	
	<b>(Unexpanded)</b>		<b>(Expanded)</b>	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	--
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	--
Juvenile Unknown Sex	0	---	0.0	--
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	--
Male Unknown Age	0	---	0.0	--
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	--	0.0	---

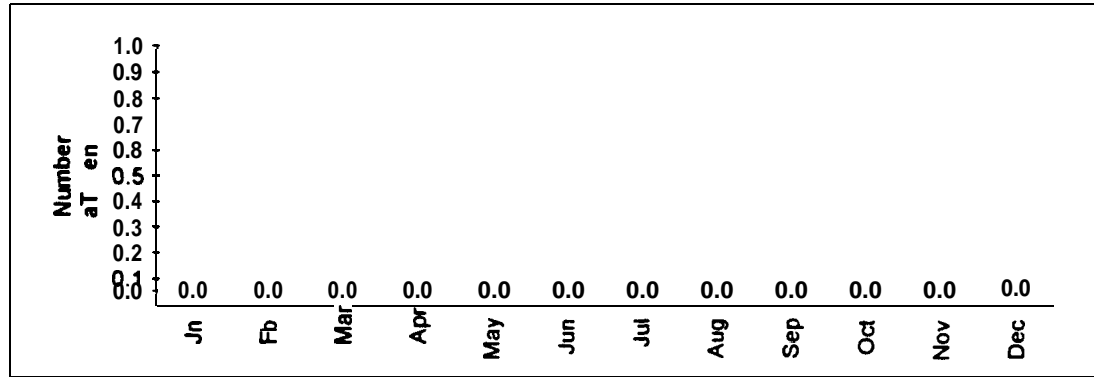
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Valdez Nativ Association, 1993.

FIGURE 49. SEA LION (Eumotopiar jubatus) TAKE ESTIMATES: VALDEZ, 1992

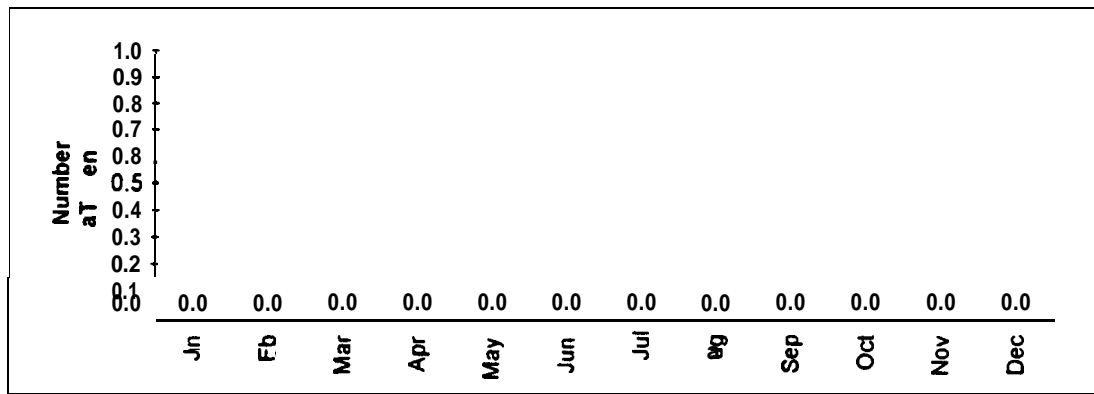
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assistance from the Valdez Native Association, 1993.

TABLE 50. HARBOR SEAL (*Phoca vttulina*) HARVEST AND TAKE ESTIMATES: VALDEZ, 1992

SAMPLING DESIGN: RANDOM SAMPLE

Total Native Households	120
Surveyed Households	31
Sampling Fmdion	25.8%
Sample Household Members	98
Estimated Household Members	371.8

## HARBOR SEAL HARVEST AND USE INFORMATION

## Percent Of Native Households:

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

## Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

## HARBOR SEAL HARVEST BY AGE AND SEX

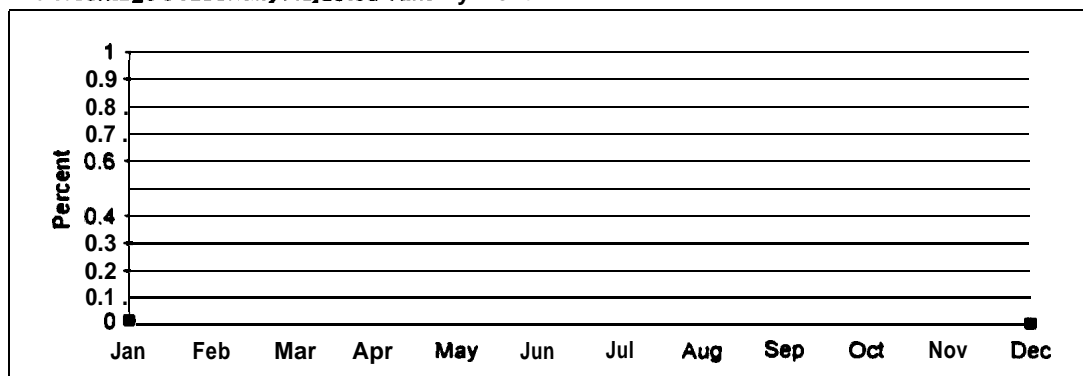
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	--
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	--
Pup Female	0	--	0.0	--
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	--
Total	0	--	0.0	---

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Valdez Native Association, 1993.

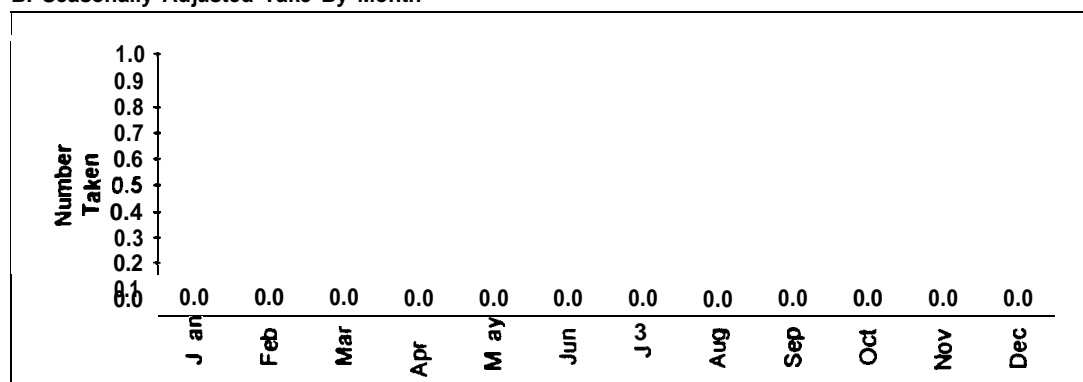


FIGURE S0. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: VALDEZ, 1992

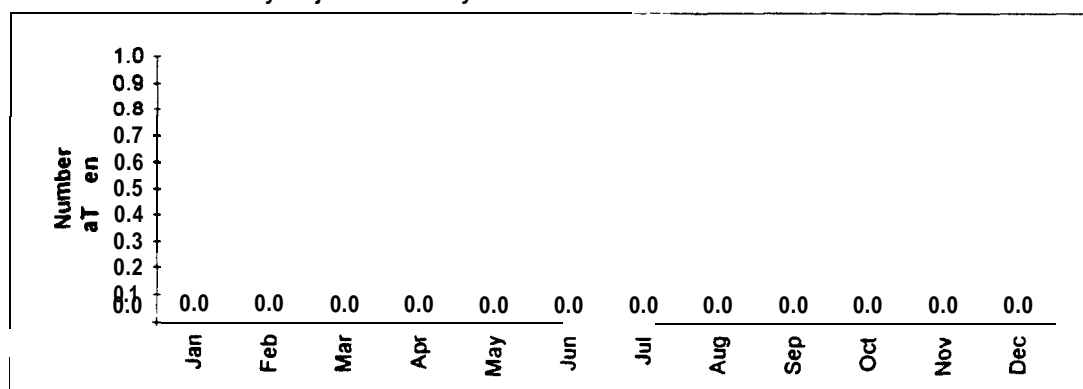
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Valdez Native Association, 1993.



## UPPER KENAI - COOK INLET

**TABLE 51. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: ANCHORAGE, 1992**

SAMPLING DESIGN: CENSUS

Total Native Households 19  
 Surveyed Households 10  
 Sampling Fraction 52.6%  
 Sample Household Members 33  
 Estimated Household Members 62.7

**SEA LION HARVEST AND USE INFORMATION**

**Percent Of** Native Households:  
 Used 30.0%  
 Hunted 10.0%  
 Harvested 10.0%  
 Received 30.0%  
 Gave Away 10.0%

**Estimated Community Harvest and Take (Expanded):**  
 Total Number Harvested 5.7  
 Total Number Struck and Lost 3.8  
 Total Number Taken 9.5  
 Number Harvested Per Capita 0.09

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	5	5
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	9.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		5.7
Struck and Lost	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3		3.8
Total Take	0.0	0.8	0.8	0.8	0.8	0.6	0.8	0.8	0.8	0.8	0.8	0.8		9.5
Total Take (%)	8.3%	0.3%	0.3%	8.3%	0.3%	0.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%		100%
Cumulative Take	0.8	1.6	2.4	3.2	4.0	4.8	5.5	6.3	7.1	7.9	0.7	9.5		
Cum. Take (%)	8.3%	16.7%	25.0%	33.3%	41.7%	50.0%	58.3%	66.7%	75.0%	83.3%	91.7%	100.0%		

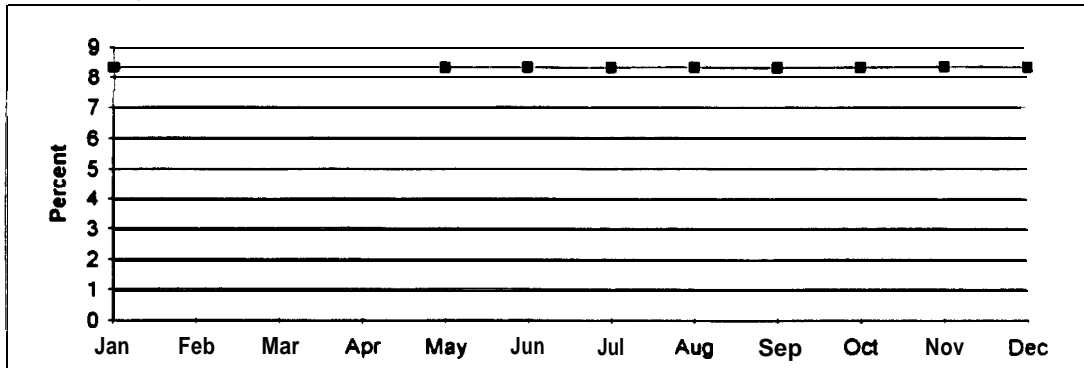
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	2	66.7%	3.8	66.7%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	1	33.3%	1.9	33.3%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	5.7	100.0%

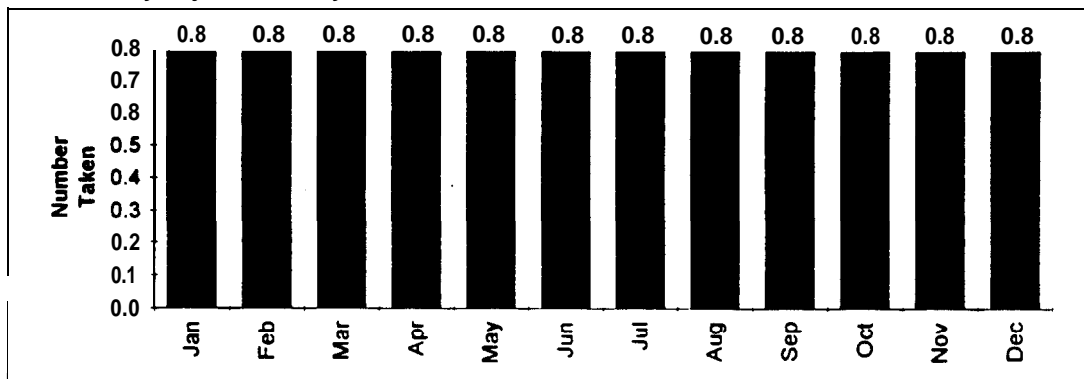
SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives, 1993.

FIGURE 51. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: ANCHORAGE, 1992

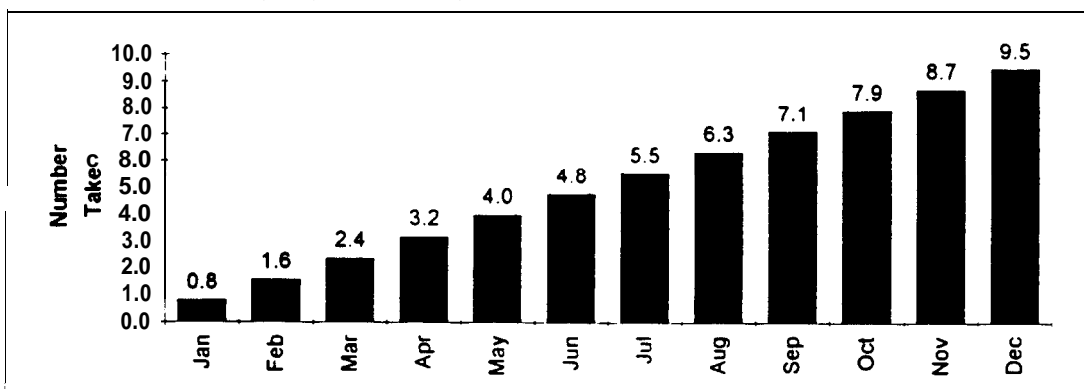
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives, 1993

**TABLE 52. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: ANCHORAGE, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households 19  
 Surveyed Households 10  
 Sampling Fraction 52.8%  
 Sample Household Members 33  
 Estimated Household Members 82.7

**HARBOR SEAL HARVEST AND USE INFORMATION**

Percent Of Native Households:  
 used 70.0%  
 Hunted 70.0%  
 Harvested 40.0%  
 Received 60.01  
 Gave Away 40.0%

Estimated Community **Harvest and Take (Expanded):**  
 Total Number Harvested 17.1  
 Total Number Struck and Lost 0.0  
 Total Number Taken 17.1  
 Number Harvested Per Capita 0.27

**HARBOR SEAL HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	1	1	0	2	0	0	1	0	0	4	9
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	1	1	0	2	0	0	1	0	0	4	9
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	1.9	1.9	0.0	3.8	0.0	0.0	1.9	0.0	0.0	7.6	17.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	1.9	1.9	0.0	3.8	0.0	0.0	1.9	0.0	0.0	7.6	17.1
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	3.4	3.4	0.0	6.8	0.0	0.0	3.4	0.0	0.0		17.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	3.4	3.4	0.0	6.8	0.0	0.0	3.4	0.0	0.0		17.1
Total Take (W)	0.0%	0.0%	0.0%	20.0%	20.0%	0.0%	40.0%	0.0%	0.0%	20.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	3.4	6.8	6.8	13.7	13.7	13.7	17.1	17.1	17.1		
Cum. Take (%)	0.0%	0.0%	0.0%	20.0%	40.0%	40.0%	80.0%	80.0%	100.0%	100.0%	100.0%	100.0%		

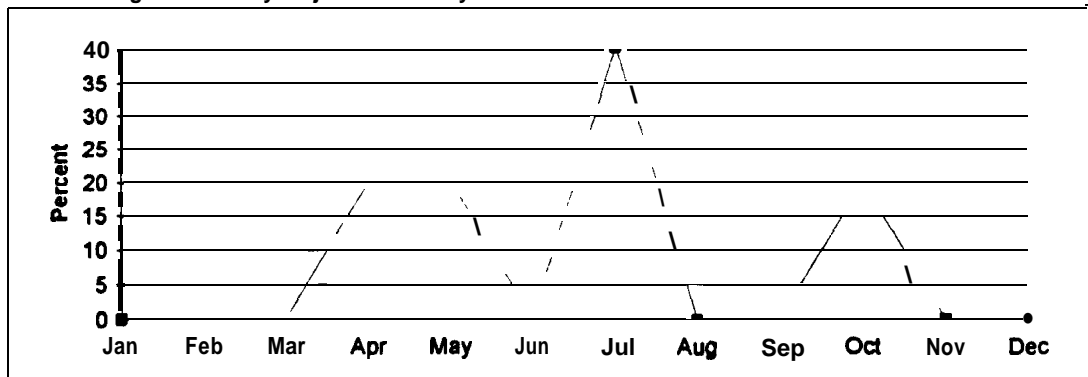
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	2	22.2%	3.8	22.2%
Adult Female	1	11.1%	1.9	11.1%
Adult Unknown Sex	3	33.3%	5.7	33.3%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	3	33.3%	5.7	33.3%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	9	100.0%	17.1	100.0%

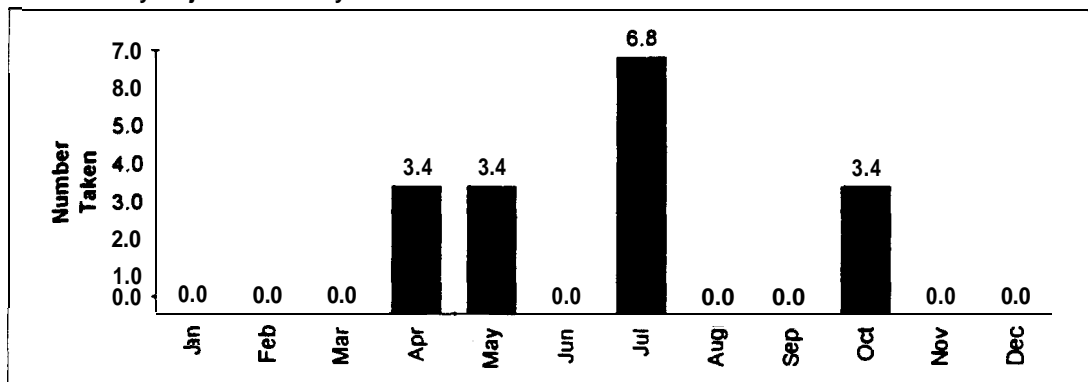
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives. 1993.

FIGURE 52. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: ANCHORAGE, 1992

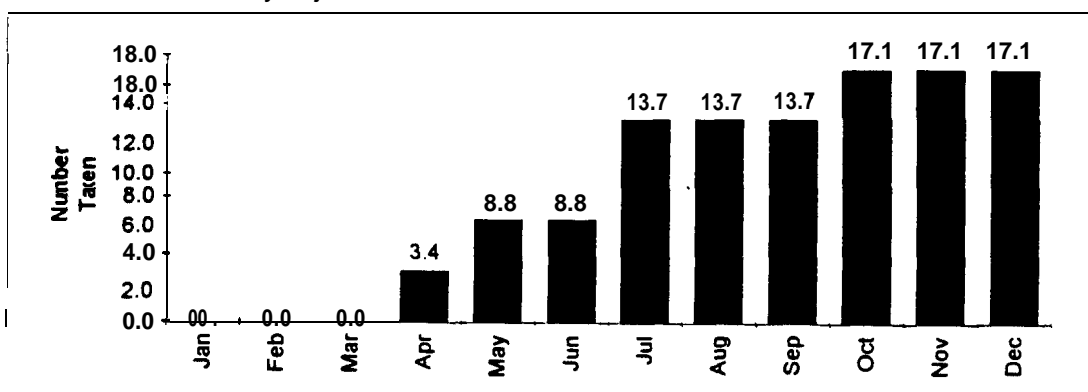
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department Of Fish and Game, Division of Subsistence, Subsistence Study  
 • ♦ Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from  
 the Cook Inlet Tribal Council and Alaska Federation of Natives, 1993.

TABLE 53. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KENAI, 1992

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	6
Surveyed Households	6
Sampling Fraction	75.0%
Sample Household Members	23
Estimated Household Members	30.7

## SEA LION HARVEST AND USE INFORMATION

## Percent Of Sample Households:

Used	16.7%
Hunted	0.0%
Harvested	0.0%
Received	16.7%
Gave Away	0.0%

## Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	N/A

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Teke	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck end Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Teke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck end Loet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Teke (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

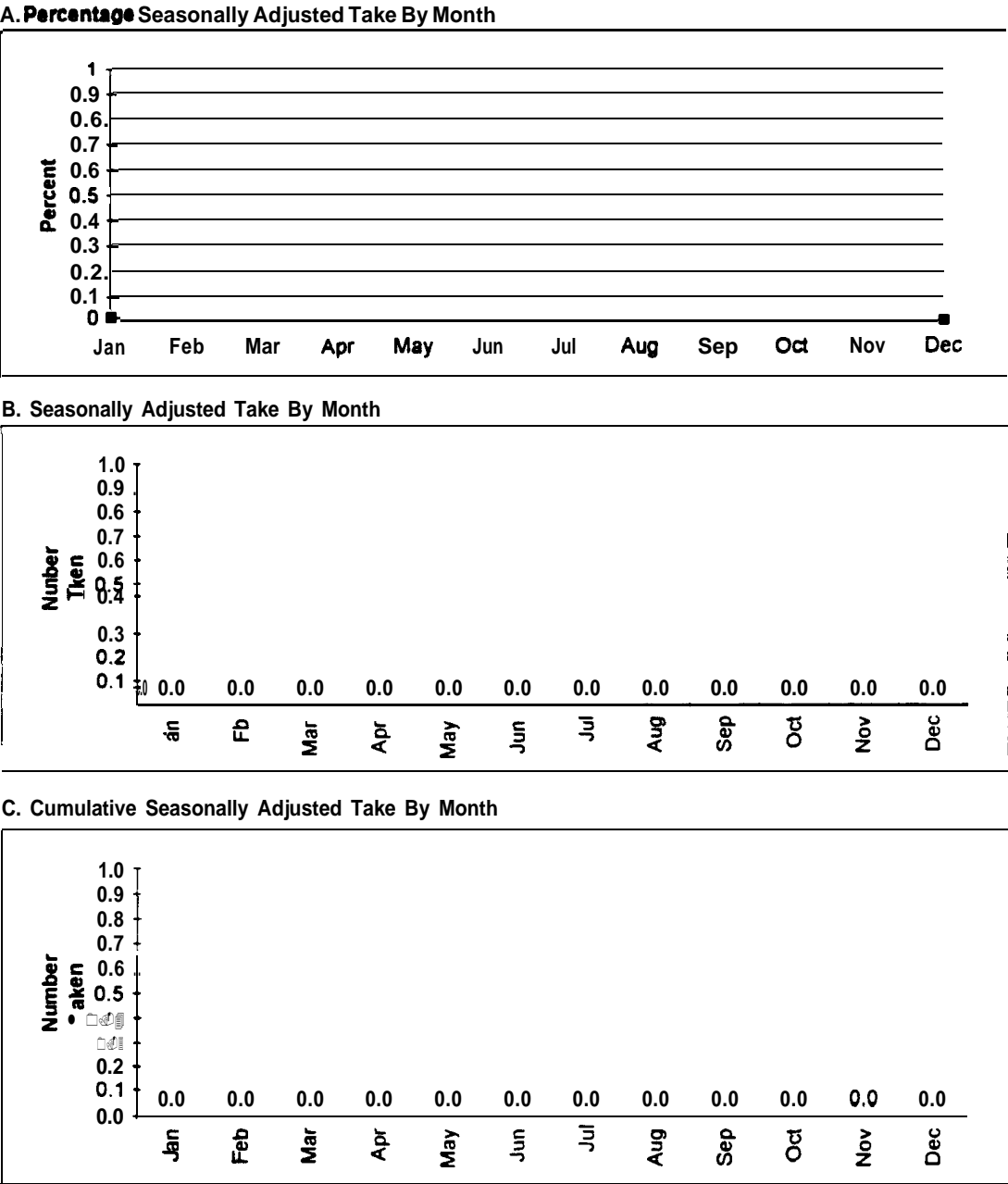
## SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	--
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	--
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	--	0.0	---
Pup Female	0	--	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	--
Unknown Sex and Age	0	--	0.0	---
Total	0	--	0.0	---

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kenaitze Indian Tribe IRA and Cook Inlet Region, Inc., 1993.



FIGURE 53. SEALION (Eumetopias jubatus) TAKE ESTIMATES: KENAI, 1992



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kenaitze Indian Tribe and Cook Inlet Region, Inc., 1993.

**TABLE 94. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KENAI, 1992**

SAMPLING DESIGN: CHAIN REFERRAL

Total Sample Households	8
Surveyed Households	6
Sampling Fraction	75.0%
Sample Household Members	23
Estimated Household Members	30.7

**HARBOR SEAL HARVEST AND USE INFORMATION**

Percent **Of** Sample Households:

Used 83.3%  
Hunted 50.0%  
Harvested 50.0%  
Received 66.7%  
Gave Away 50.0%

Estimated Community **Harvest** and Take (Expanded):

Total Number Harvested 33.3  
Total Number Struck and Lost 0.0  
Total Number Taken 33.3  
Number Harvested Per Capita N/A

HARBOR SEAL HARVEST <b>BY</b> SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	2	20	0	0	0	0	0	0	0	3	0	0	0	25	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	2	20	0	0	0	0	0	0	0	3	0	0	0	25	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	2.7	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	33.3	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	2.7	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	33.3	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	2.7	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0		33.3	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take	2.7	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0		33.3	
Total Take (W)	8.0%	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.0%	0.0%	0.0%		100%	
Cumulative Take	2.7	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	33.3	33.3	33.3			
Cum. Take (%)	8.0%	88.0%	88.0%	88.0%	88.0%	88.0%	88.0%	88.0%	88.0%	100.0%	100.0%	100.0%			

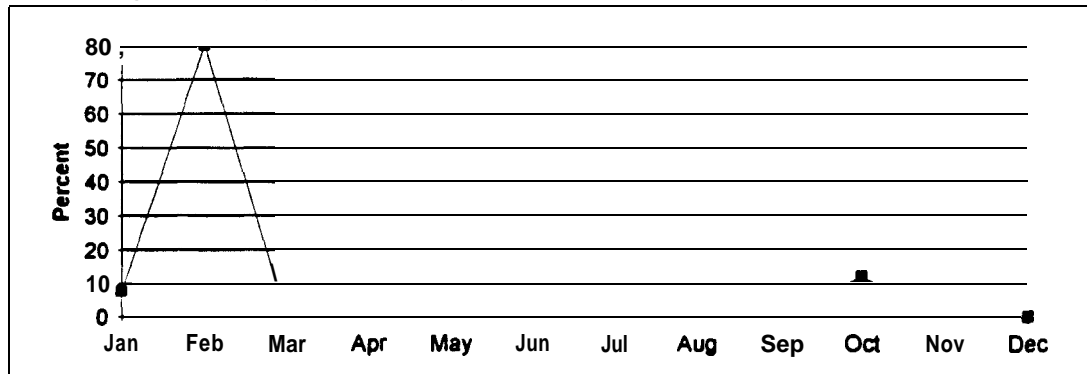
**HARBOR SEAL HARVEST **BY** AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expended)	
Adult Male	2	8.0%	2.7	8.0%
Adult Female	2	8.0%	2.7	8.0%
Adult Unknown Sex	15	80.0%	20.0	60.0%
Juvenile Male	1	4.0%	1.3	4.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	5	20.0%	6.7	20.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	25	100.0%	33.3	100.0%

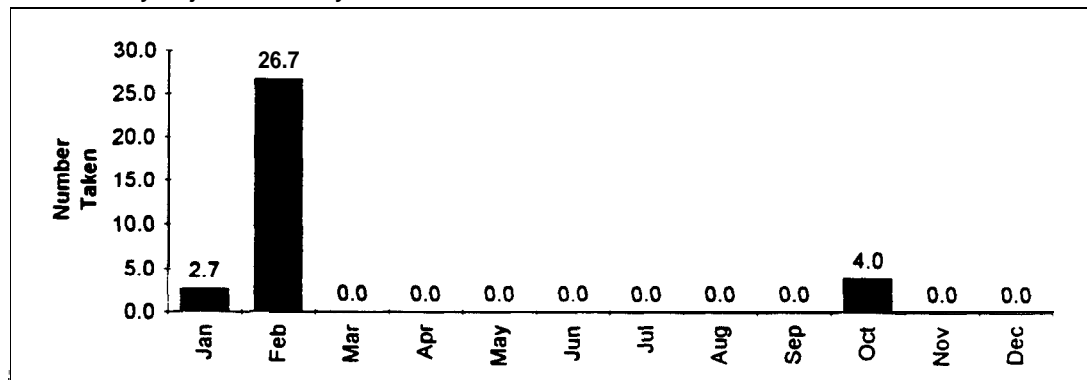
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kenaitze Indian Tribe IRA and Cook Inlet Region, Inc 1993.

**FIGURE 54. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KENAI, 1992**

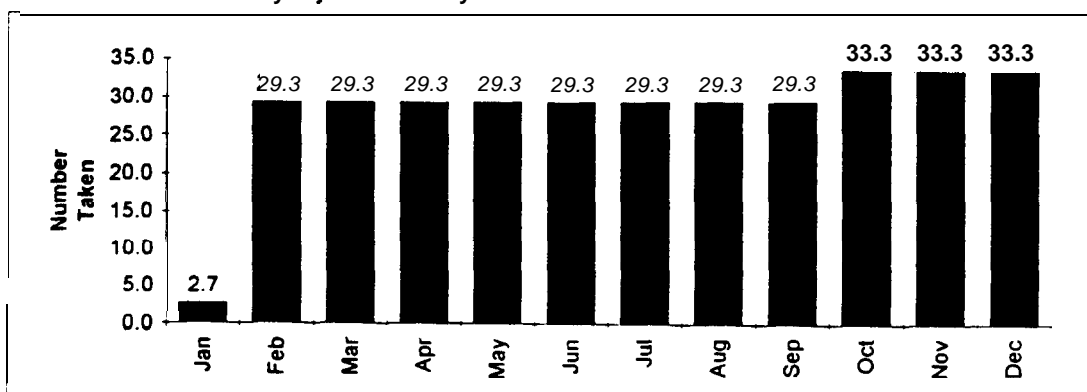
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kenaitze Indian Tribe IPA and Cook Inlet Region, Inc., 1993.

**TABLE 55. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: TYONEK, 1992**

**SAMPLING DESIGN: CENSUS**

Total Native Households	53
Surveyed Households	47
Sampling Fraction	88.7%
Sample Household Members	154
Estimated Household Members	173.7

**SEA LION HARVEST AND USE INFORMATION**

**Percent Of Native Households:**

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

**SEA LION HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	kg	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

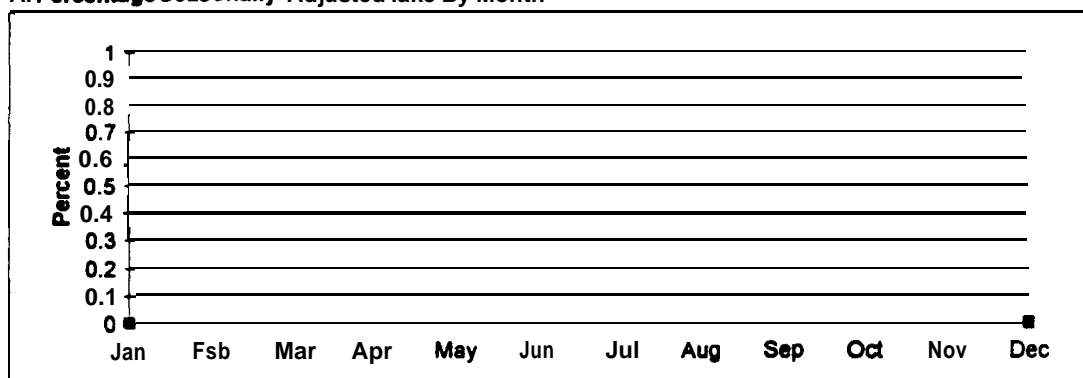
**SEA LION HARVEST BY AGE AND SEX**

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

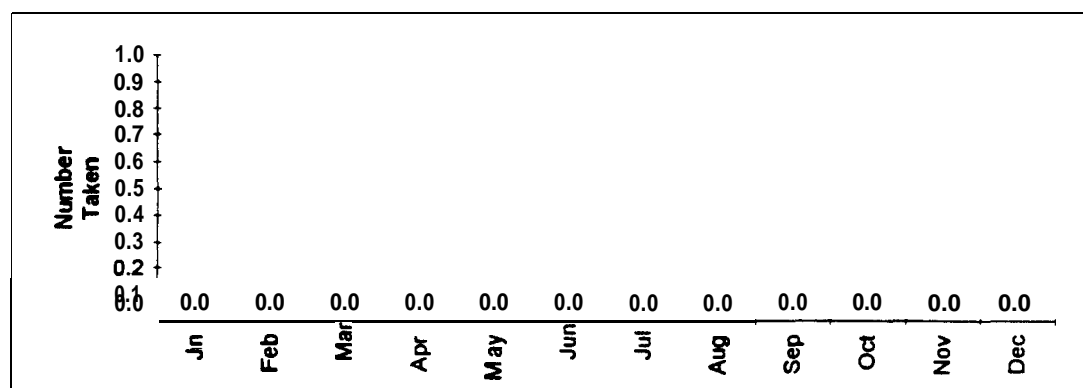
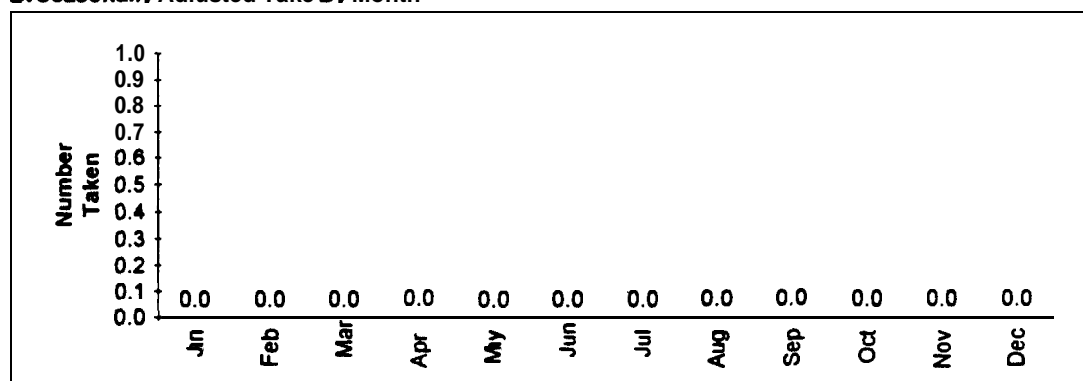
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Native Village of Tyonek, 1993.

FIGURE 69. SEA UON (*Eumetopias jubatus*) TAKE ESTIMATES: TYONEK, 1992

**A. Percentage Seasonally Adjusted lake By Month**



**B. Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Native Village of Tyonek, 1993.

**TABLE 56. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: TYONEK, 1992**

**SAMPLING DESIGN: CENSUS**

Total Native Households	53
Surveyed Households	47
Sampling Fraction	88.7%
Sample Household Members	154
Estimated Household Members	173.7

**HARBOR SEAL HARVEST AND USE INFORMATION**

**Percent Of Nativ Households:**

Used 12.8%  
Hunted 0.4%  
Harvested 2.1%  
Recaivad 10.6%  
Gave Away 0.4%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested 1.1  
Total Number Struck and Lost 0.0  
Total Number Taken 1.1  
Number Harvested Per Capita 0.01

HARBOR SEAL HARVEST BY SEASON												Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	1	0	0	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

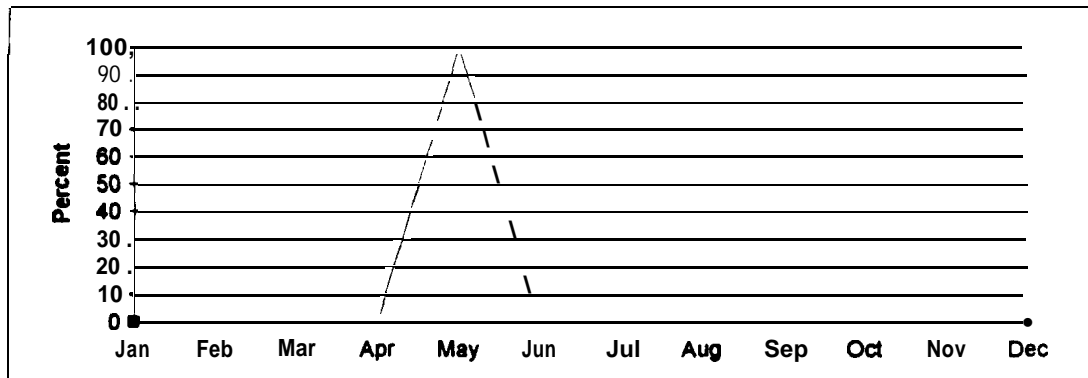
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	1	100.0%	1.1	100.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	1	100.0%	1.1	100.0%

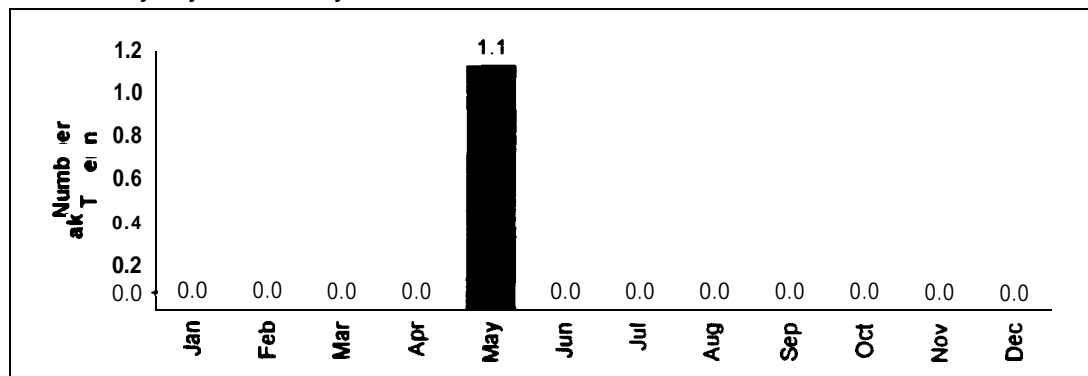
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Native Village of Tyonek, 1993.

FIGURE 56. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: TYONEK, 1992

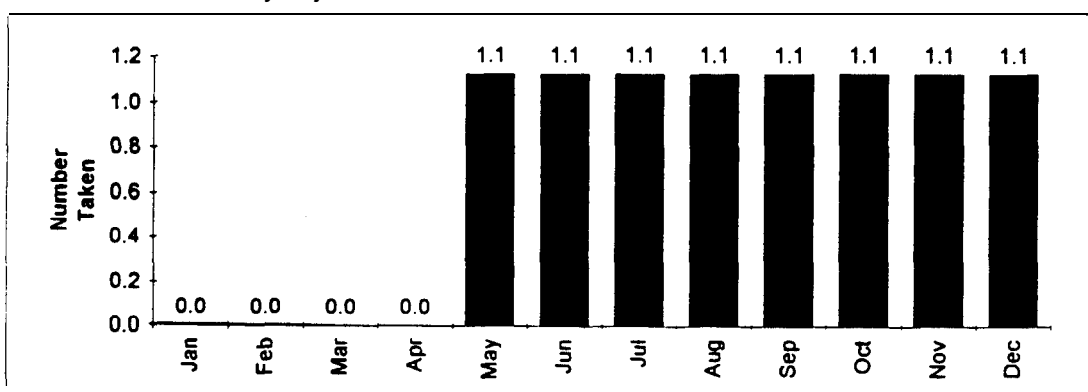
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Native Village of Tyonek, 1993.





## KODIAK ISLAND

TABLE 67. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: AKHIOK, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	22
Surveyed Households	22
Sampling Fraction	100.0%
Sample Household Members	77
Estimated Household Members	77.0

## SEA LION HARVEST AND USE INFORMATION

## Percent Of Native Households:

Used	50.0%
Hunted	27.3%
Harvested	9.1%
Received	45.5%
Gave Away	18.2%

## Estimated Community Harvest and Take (Expanded):

Total Number Harvested	3.0
Total Number Struck and Lost	1.0
Total Number Taken	4.0
Number Harvested Per Capita	0.04

## SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	0	0	0	0	0	0	2	0	3
Struck and Lost	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	1	0	0	1	0	0	0	0	0	0	0	2	0	4
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Hsrwt	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	3.0
Struck and Lost	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Take	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	4.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
														3.0

Harvest	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0
Total Take (W)	25.0%	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%
Cumulative Take	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0
Cum. Take (%)	25.0%	25.0%	25.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	100.0%

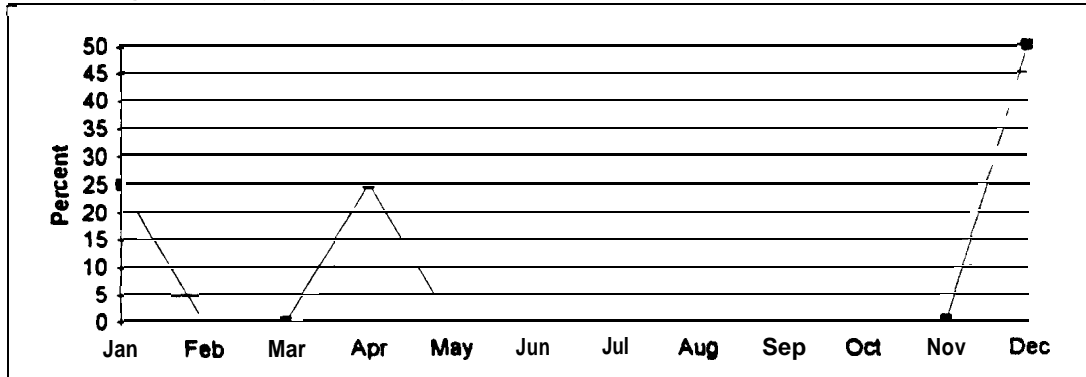
## SEA LION HARVEST BY AGE AND SEX

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	1	33.3%	1.0	33.3%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	2	86.7%	2.0	66.7%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	3.0	100.0%

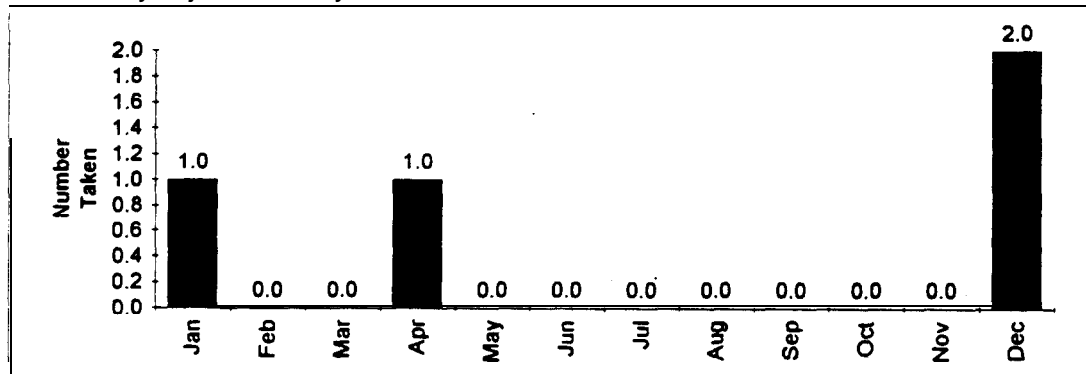
SOURCE: Alaska Department Of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council. 1993.

FIGURE 57. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: AKHIOK, 1992

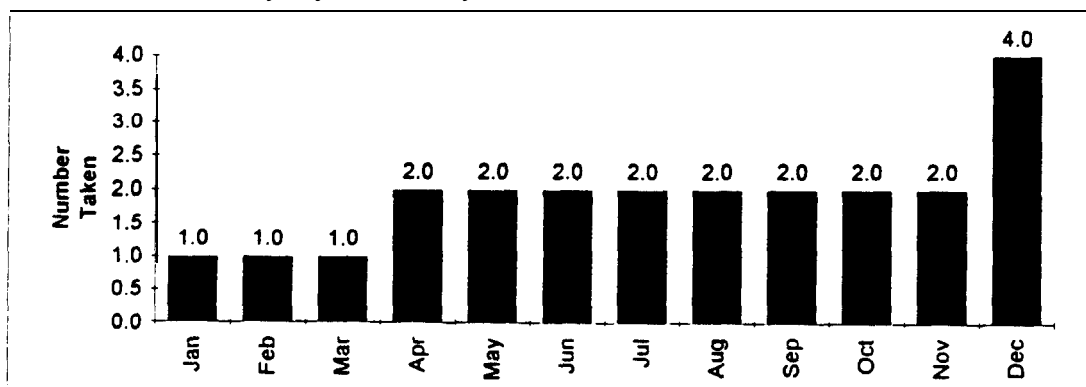
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 1993.

**TABLE 58. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: AKHIOK, 1992**

SAMPLING DESIGN: CENSUS

Total Native Households	22
Surveyed Households	22
Sampling Fraction	100.0%
Sample Household Members	77
Estimated Household Members	77.0

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of **Native Households:**  
 used 00.2%  
 Hunted 45.5%  
 Harvested 31.8%  
 Received 50.0%  
 Gave Away 31.8%

Estimated Community **Harvest and Take** (Expanded):  
 Total Number Harvested 20.0  
 Total Number Struck and Lost 3.0  
 Total Number Taken 23.0  
 Number Harvested Per Capita 0.20

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	0	0	0	2	0	0	0	1	4	12	20
Struck and Lost	0	1	0	0	0	0	2	0	0	0	0	0	0	3
Total Take	0	1	1	0	0	0	4	0	0	0	1	4	12	23
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	1.0	4.0	12.0	20.0
Struck and Lost	0.0	1.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Total Take	0.0	1.0	1.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	1.0	4.0	12.0	23.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.5	0.0	0.0	0.0	5.0	0.0	0.0	0.0	2.5	10.0		20.0
Struck and Lost	0.0	1.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0		3.0
Total Take	0.0	1.0	2.5	0.0	0.0	0.0	7.0	0.0	0.0	0.0	2.5	10.0		23.0
Total Take (%)	0.0%	4.3%	10.9%	0.0%	0.0%	0.0%	30.4%	0.0%	0.0%	0.0%	10.6%	43.5%		100%
Cumulative Take	0.0	1.0	3.5	3.5	3.5	3.5	10.5	10.5	10.5	10.5	13.0	23.0		
Cum. Take (%)	0.0%	4.3%	15.2%	15.2%	15.2%	15.2%	45.7%	45.7%	45.7%	45.7%	55.5%	100.0%		

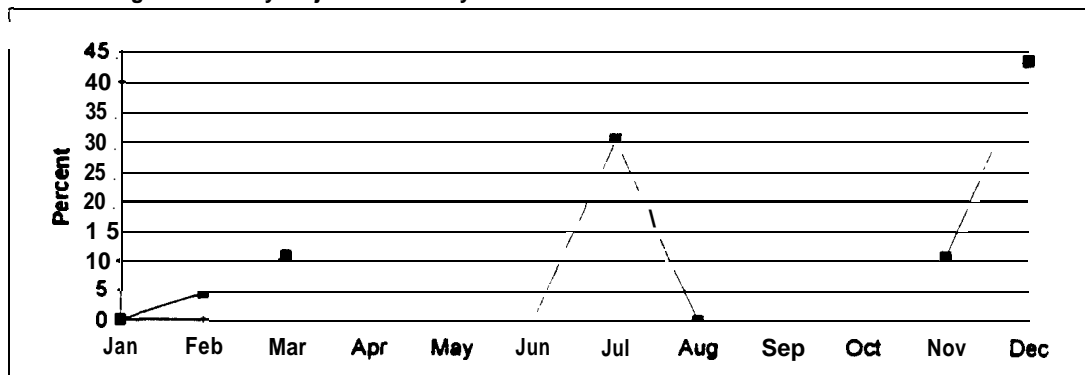
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	5	25.0%	5.0	25.0%
Adult Female	2	10.0%	2.0	10.0%
Adult Unknown Sex	4	20.0%	4.0	20.0%
Juvenile Male	1	5.0%	1.0	5.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	8	40.0%	8.0	40.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	20	100.0%	20.0	100.0%

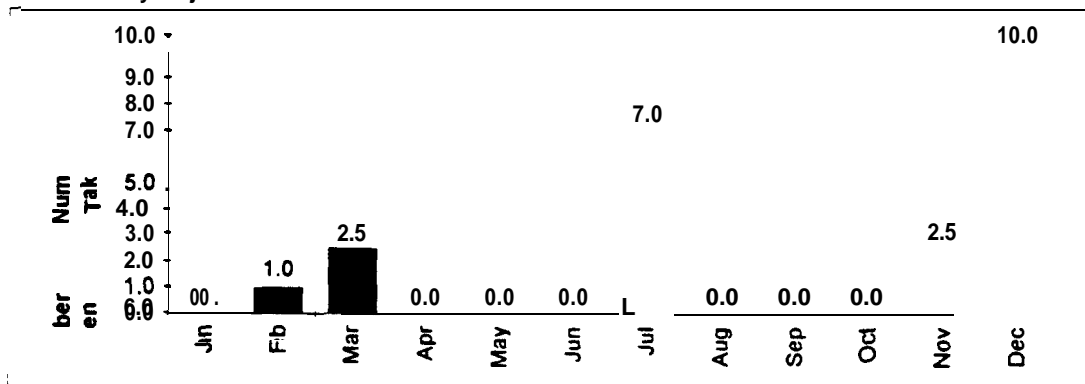
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 1993.

FIGURE 58. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: AKHIOK, 1992

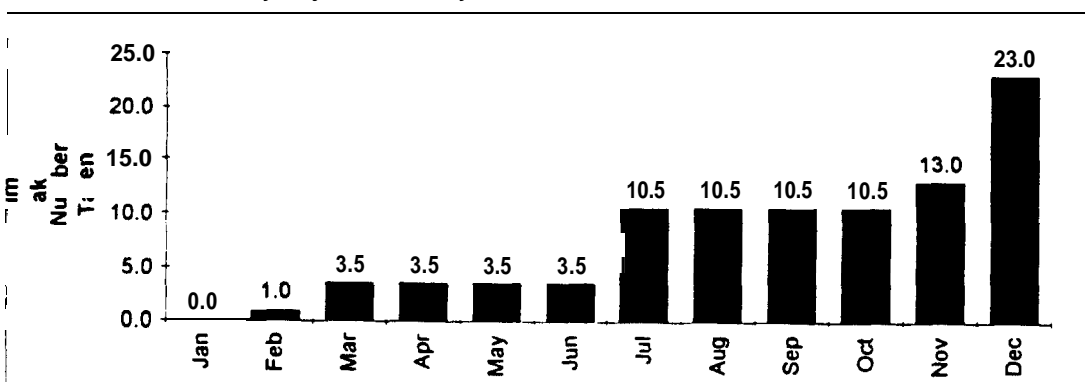
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 1993.

TABLE 59. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KARLUK, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	18
Surveyed Households	12
Sampling Fraction	66.7%
Sample Household Members	48
Estimated Household Members	72.0

## SEA LION HARVEST AND USE INFORMATION

Percent **Of** Native Households:

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

Estimated Community **Harvest and Take** (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---			---	---	---	---	---		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

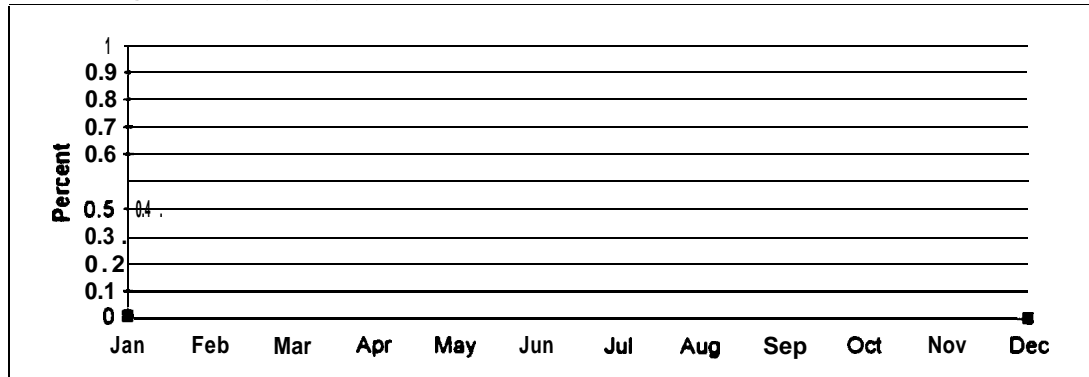
## SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample Percent	(Unexpanded)	By Community Percent	(Expanded)
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

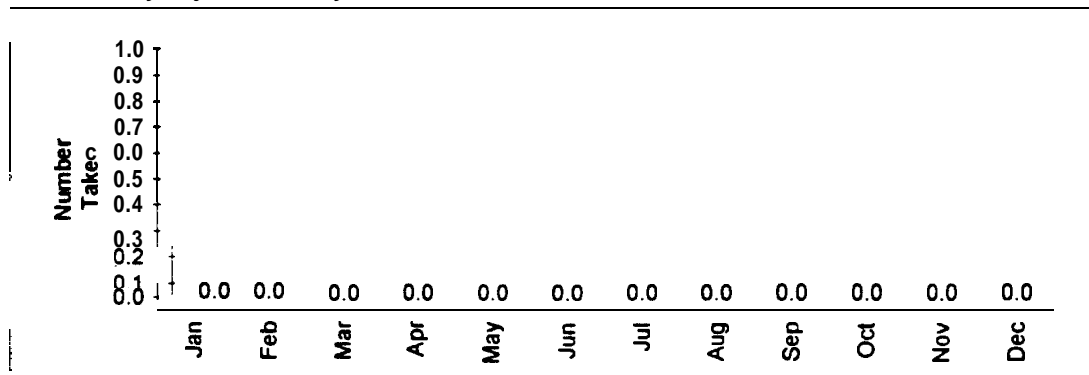
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with input from the Karluk IRA Council, 1993.

FIGURE 59. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KARLUK, 1992

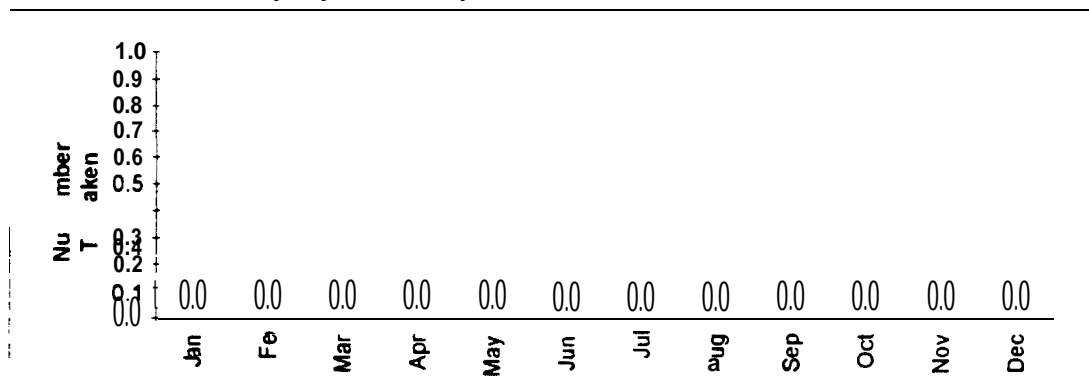
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assistance from the Karluk IRA Council. 1993.

**TABLE 60. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KARLUK, 1992**

SAMPLING DESIGN: CENSUS

Total Native Households	18
Surveyed Households	12
Sampling Fraction	66.7%
Sample Household Members	48
Estimated Household Members	72.0

## HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:

Used 58.3%  
Hunted 50.0%  
Harvested 50.0%  
Received 33.3%  
Gave Away 41.7%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 18.5  
Total Number Struck and Lost 1.5  
Total Number Taken 18.0  
Number Harvested Per Capita 0.23

HARBOR SEAL HARVEST <i>BY</i> SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNWPANDED)														
Harvest	2	2	0	0	0	0	0	0	1	1	1	4	0	11
Struck and Lost	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	3	2	0	0	0	0	0	0	1	1	1	4	0	12
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	6.0	0.0	16.5
Struck and Lost	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Total Take	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.6	1.5	6.0	0.0	18.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	6.0		16.5
Struck and Lost	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.5
Total Take	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	6.0		18.0
Total Take (%)	25.0%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	6.3%	0.3%	33.3%		100%
Cumulative Take	4.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.0	10.5	12.0	16.0		
Cum Take (%)	25.0%	41.7%	41.7%	41.7%	41.7%	41.7%	41.7%	41.7%	50.0%	56.3%	66.7%	100.0%		

## HARBOR SEAL HARVEST BY AGE AND SEX

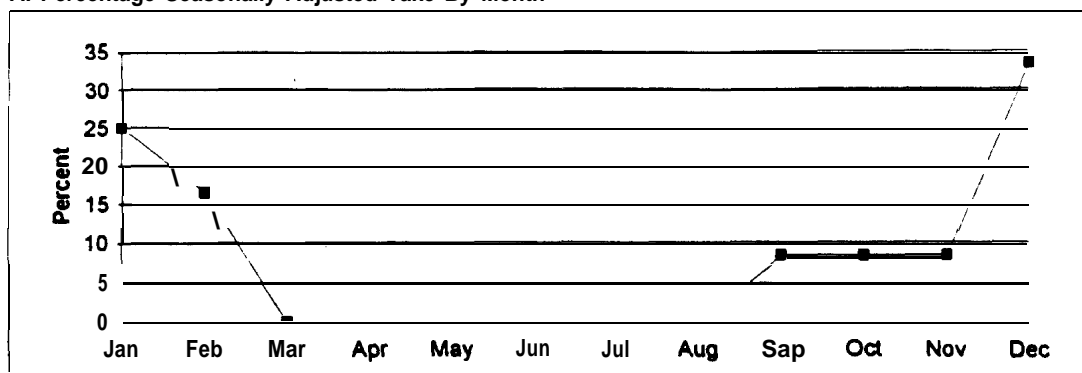
	Reported		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	3	27.3%	4.5	27.3%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	5	45.5%	7.5	45.5%
Juvenile Male	1	9.1%	1.5	9.1%
Juvenile Female	1	9.1%	1.5	9.1%
Juvenile Unknown Sex	1	9.1%	1.5	9.1%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	11	100.0%	16.5	100.0%

SOURCE: Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Karluk IRA Council, 1993.

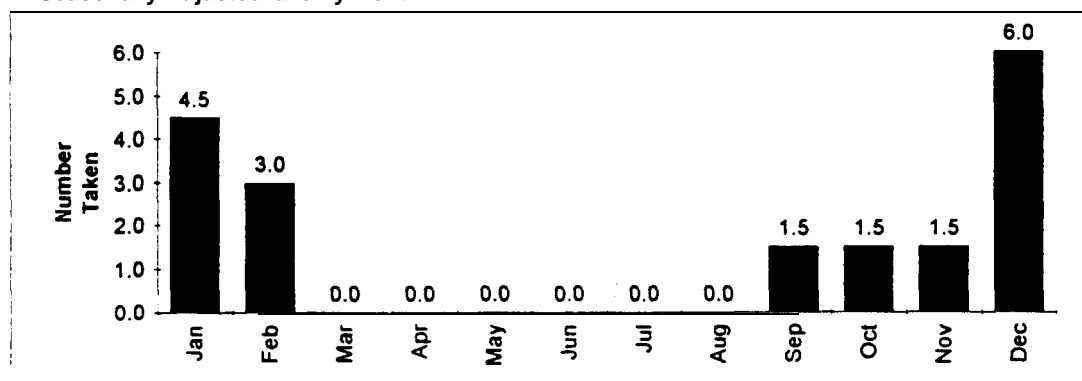


FIGURE 60. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KARLUK, 1992

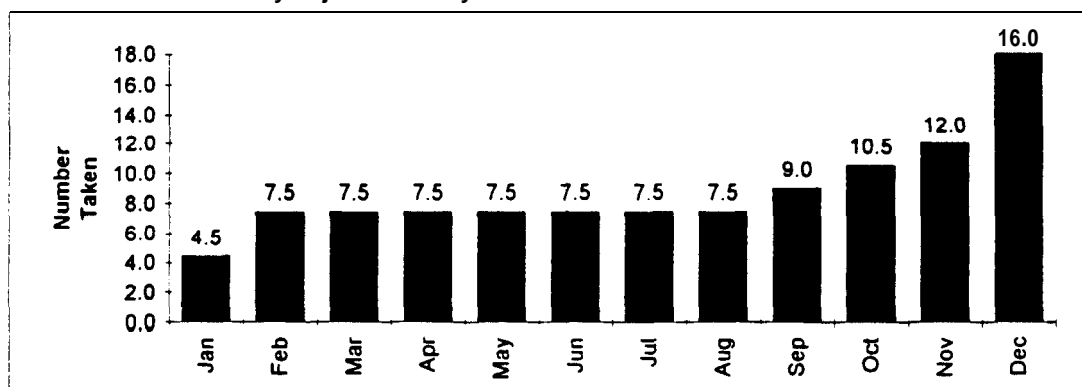
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Karluk IRA Council, 1993.

TABLE 61. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KODIAK CITY, 1992

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	64	266	310
Surveyed Households	49	15	64
Sampling Fraction	90.7%	5.9%	20.6%
Sample Household Members	149	36	165
Estimated Household Members	164.2	614.4	776.6

## SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:

used 12.5%  
 Hunted 0.0%  
 Harvested 0.0%  
 Received 12.5%  
 Gave Away 3.1%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita 0.00

## SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Unknown Dec Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)													
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)													
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)													
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take (X)	---	---	---	---	---	---	---	---	---	---	---	---	---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

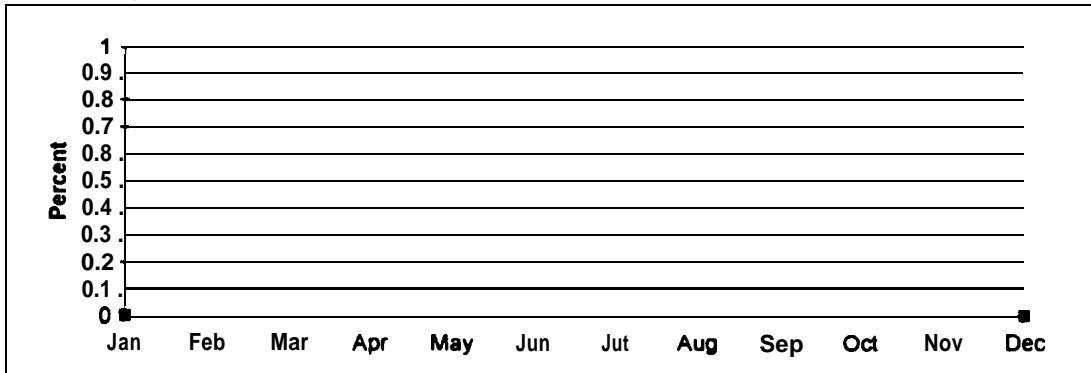
## SEA LION HARVEST BY AGE AND SEX

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	0	--	0.0	---
Adult Female	0	---	0.0	--
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	--	0.0	---
Juvenile Female	0	---	0.0	--
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

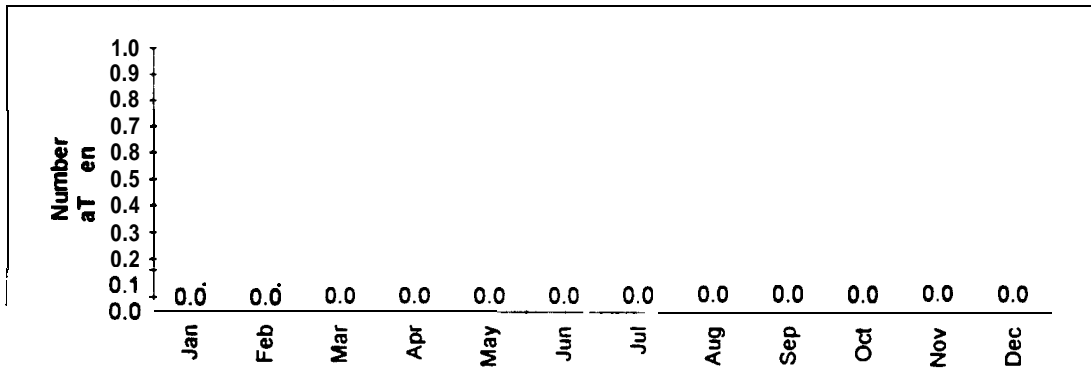
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Area Native Association. 1993

FIGURE 61. SEA LION (*Eumotopias jubatus*) TAKE ESTIMATES: KODIAK CITY, 1992

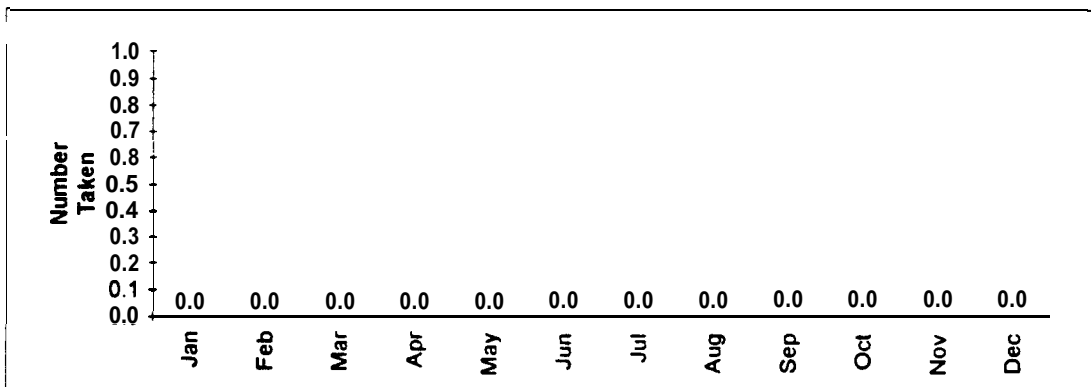
A. Percentage Seasonally Adjusted lake By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Area Native Association, 1993.

**TABLE 62. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KODIAK CITY, 1992**

*SAMPLING DESIGN: TWO STRATA*

	Active	Other	Total
Total Native Households	54	258	310
Surveyed Households	49	15	64
Sampling Fraction	90.7%	5.9%	20.8%
Sample Household Members	149	38	185
Estimated Household Members	164.2	014.4	778.6

*HARBOR SEAL HARVEST AND USE INFORMATION*

Percent **Of** Native Households:  
 used 37.5%  
 Hunted 12.5%  
 Harvested 10.9%  
 Received 26.6%  
 Gave Away 9.4%

Estimated Community **Harvest and Take** (Expanded):  
 Total Number Harvested 36.9  
 Total Number Struck and Lost 0.0  
 Total Number Taken 36.9  
 Number Harvested Per Capita 0.05

HARBOR SEAL HARVEST BY SEASON												Unknown		Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	6	4	0	0	0	5	1	0	1	0	0	19
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	2	6	4	0	0	0	5	1	0	1	0	0	19
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.2	6.6	4.4	0.0	0.0	0.0	21.5	1.1	0.0	1.1	0.0	0.0	36.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	2.2	6.6	4.4	0.0	0.0	0.0	21.5	1.1	0.0	1.1	0.0	0.0	36.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.2	6.6	4.4	0.0	0.0	0.0	21.5	1.1	0.0	1.1	0.0		36.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	2.2	6.6	4.4	0.0	0.0	0.0	21.5	1.1	0.0	1.1	0.0		36.9
Total Take (%)	0.0%	6.0%	17.9%	11.9%	0.0%	0.0%	0.0%	58.2%	3.0%	0.0%	3.0%	0.0%		100%
Cumulative Take	0.0	2.2	8.8	13.2	13.2	13.2	13.2	34.7	35.8	35.8	36.9	35.9		
Cum. Take (%)	0.0%	6.0%	23.9%	35.8%	35.8%	35.8%	35.8%	94.0%	97.0%	97.0%	100.0%	100.0%		

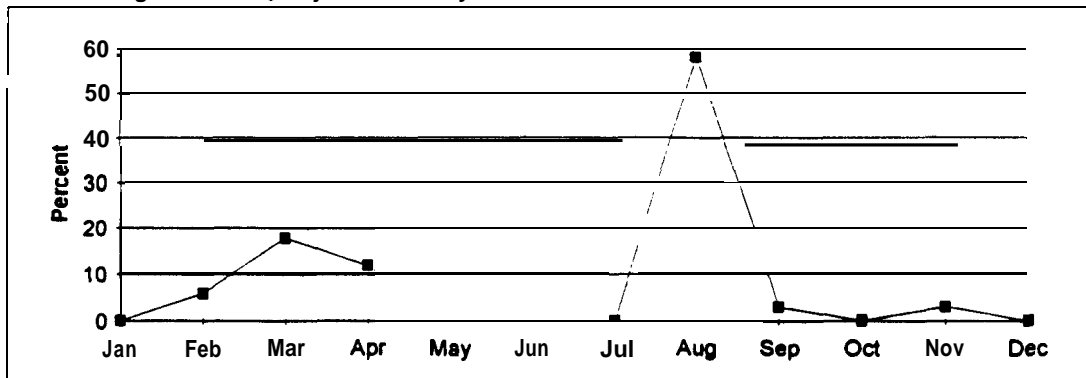
*HARBOR SEAL HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	7	36.8%	7.7	20.9%
Adult Female	5	26.3%	21.5	58.2%
Adult Unknown Sex	2	10.5%	2.2	6.0%
Juvenile Male	3	15.8%	3.3	9.0%
Juvenile Female	2	10.5%	2.2	6.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	19	100.0%	36.9	100.0%

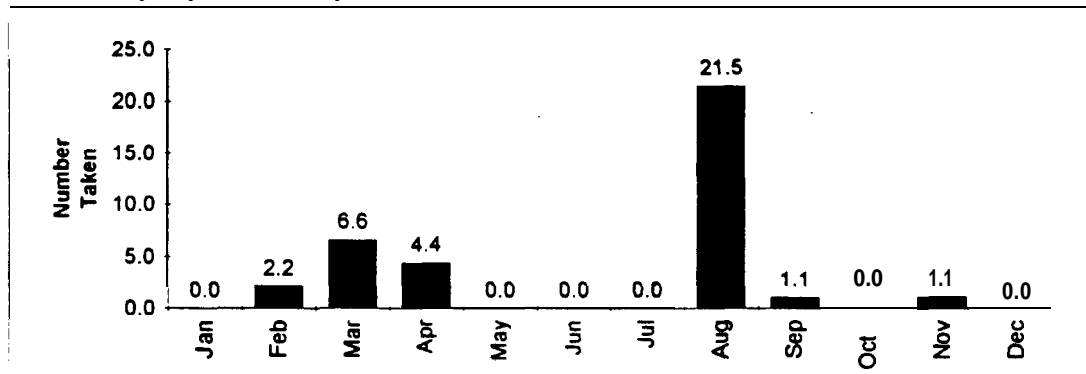
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Area Native Association, 1993.

FIGURE 62. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KODIAK CITY, 1992

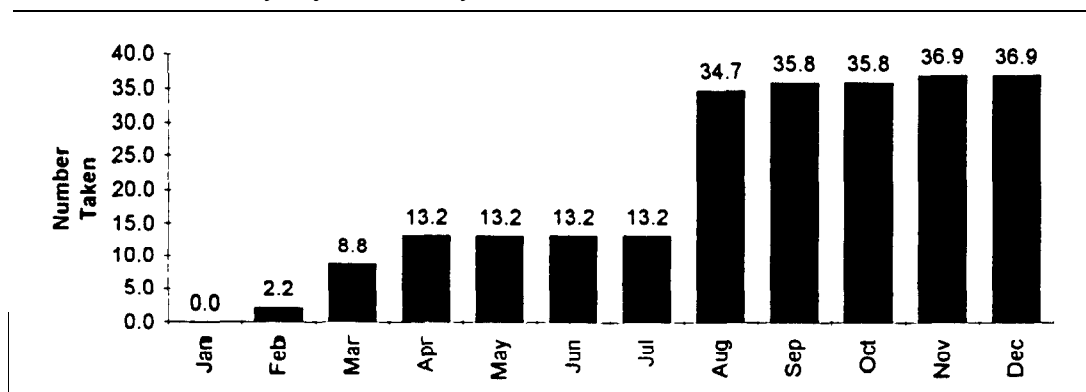
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitoring System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Area Native Association, 1993

**TABLE 63. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: LARSEN BAY, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	38
Surveyed Households	35
Sampling Fraction	92.1%
Sample Household Members	112
Estimated Household Memben	121.6

*SEA LION HARVEST AND USE INFORMATION*

Percent Of **Native** Households:

<b>Used</b>	<b>2.9%</b>
Hunted	2.9%
Harvested	2.9%
Received	0.0%
Gave Away	2.9%

Estimated Community **Harvest and Take (Expanded):**

Total Number <b>Harvested</b>	1.1
Total Number Struck and Lost	0.0
Total Number Taken	1.1
Number Harvested Per Capita	0.01

SEA LION HARVEST BY SEASON												Unknown		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	1	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0		1.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0		1.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%		

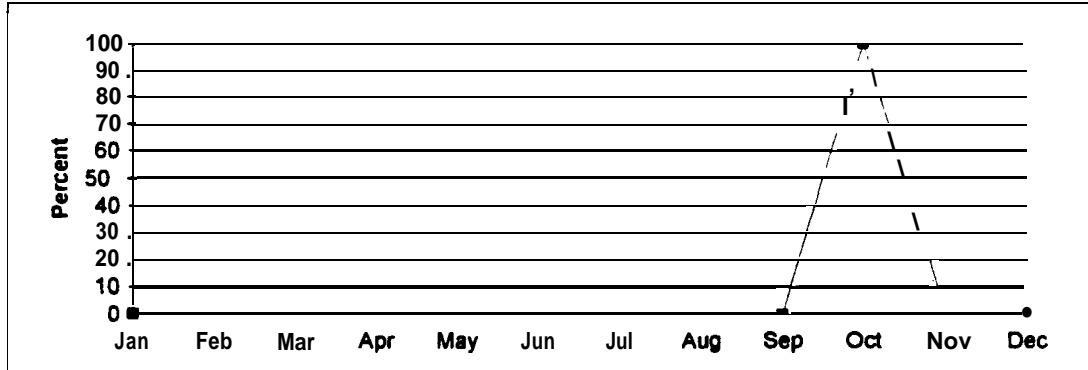
*SEA LION HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	100.0%	1.1	100.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	1	100.0%	1.1	100.0%

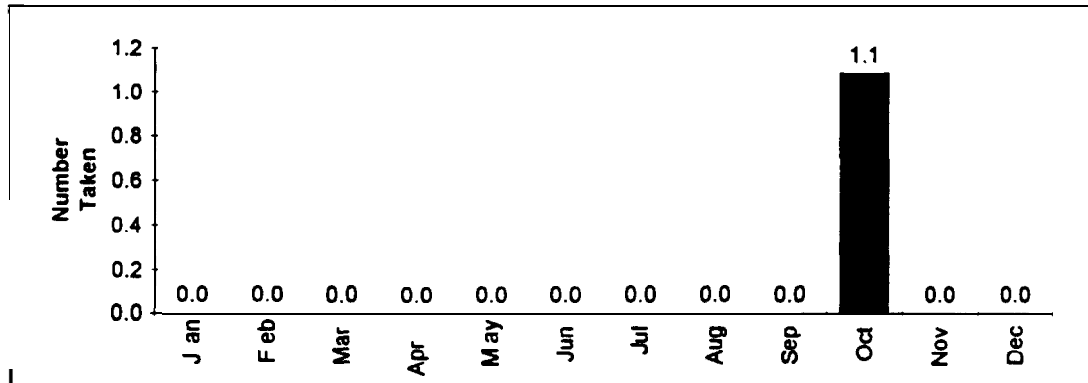
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council. 1993.

FIGURE 63. SEA LION (*Eumatopias jubatus*) TAKE ESTIMATES: LARSEN BAY, 1992

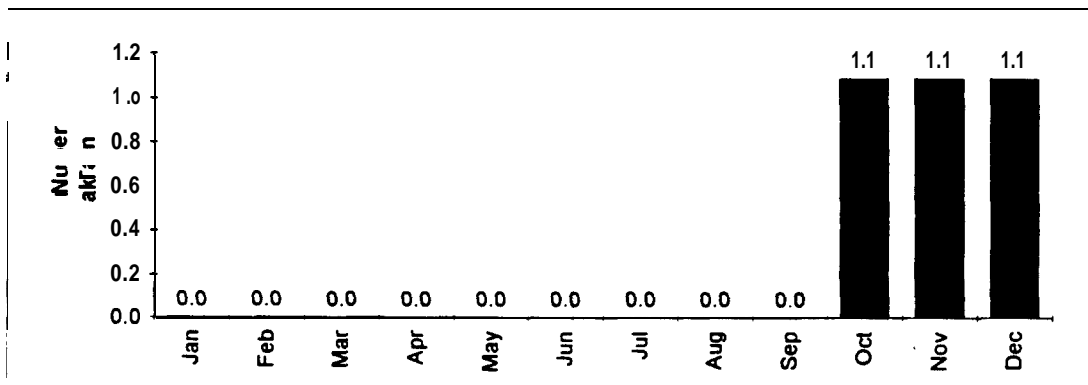
A. Percentaga Seasonally Adjusted Takr By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council, 1993.

**TABLE 64. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: LARSEN BAY, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	38
Surveyed Households	35
Sampling Fraction	92.1%
Sample Household Members	112
Estimated Household Members	121.6

**HARBOR SEAL HARVEST AND USE INFORMATION**

**Percent** Of Native Households:  
 used 14.3%  
 Hunted 14.3%  
 Harvested 8.6%  
 Received 8.6%  
 Gave Away 11.4%

**Estimated Community Harvest and Take (Expanded):**  
 Total Number Harvested 6.5  
 Total Number Struck and Lost 0.0  
 Total Number Taken 6.5  
 Number Harvested Per Capita 0.05

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	0	0	2	0	0	3	0	0	6
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	1	0	0	0	2	0	0	3	0	0	6
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.1	0.0	0.0	0.0	2.2	0.0	0.0	3.3	0.0	0.0	6.5
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	1.1	0.0	0.0	0.0	2.2	0.0	0.0	3.3	0.0	0.0	6.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.1	0.0	0.0	0.0	2.2	0.0	0.0	3.3	0.0		6.5
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	1.1	0.0	0.0	0.0	2.2	0.0	0.0	3.3	0.0		6.5
Total Take (%)	0.0%	0.0%	0.0%	16.7%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	50.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	1.1	1.1	1.1	1.1	3.3	3.3	3.3	6.5	6.5		
Cum. Take (%)	0.0%	0.0%	0.0%	16.7%	16.7%	16.7%	16.7%	50.0%	50.0%	50.0%	100.0%	100.0%		

**HARBOR SEAL HARVEST BY AGE AND SEX**

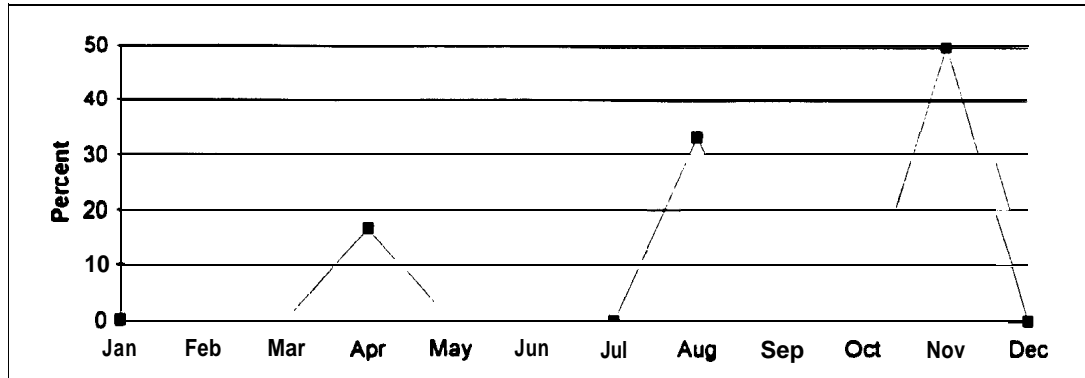
	Reported	Percent	Estimated	Percent
	By Sample (Unexpanded)		By Community (Expanded)	
Adult Male	4	66.7%	4.3	66.7%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	2	33.3%	2.2	33.3%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	6	100.0%	6.5	100.0%

**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitoring System for Sea Lions and Harbor Seals in Alaska, with assistance from the city of Larsen Bay and Larsen Bay Tribal Council, 1993.

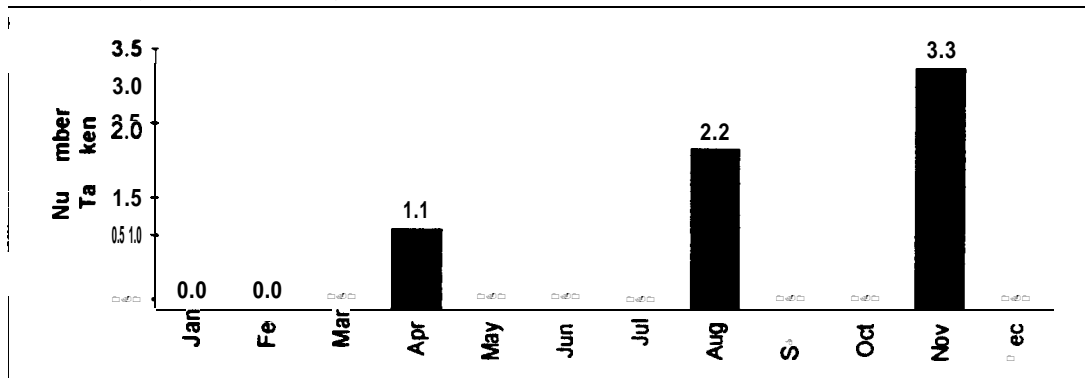


FIGURE 64. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: LARSEN BAY, 1992

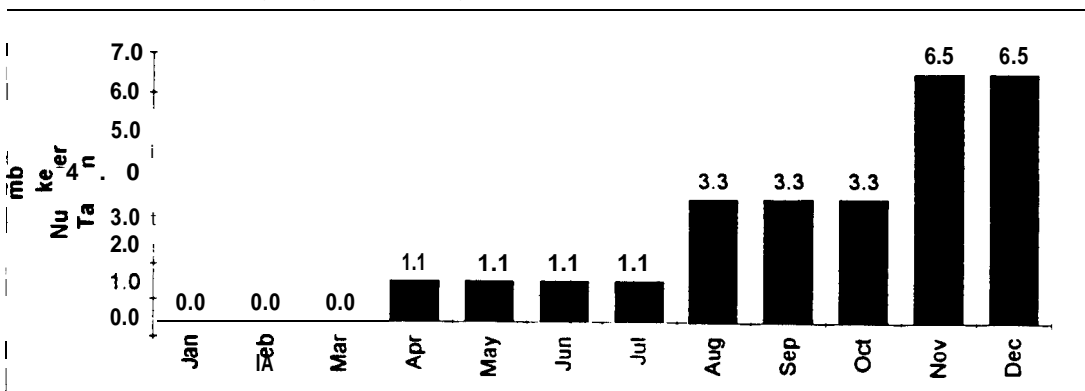
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the city of Larsen Bay and Larsen Bay Tribal Council, 1993.

**TABLE 65. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: OLD HARBOR, 1992**

*SAMPLING DESIGN: TWO STRATA*

	Active	Other	Total
Total Native Households	50	32	82
Surveyed Households	38	25	63
Sampling Fraction	76.0%	78.1%	76.8%
Sample Household Members	150	70	220
Estimated Household Members	197.4	89.6	287.0

**SEA LION HARVEST AND USE INFORMATION**

*Percent Of Native Households:*

Used 68.3%  
Hunted 25.4%  
Harvested 17.5%  
Received 60.3%  
Gave Away 23.8%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 32.9  
Total Number Struck and Lost 13.2  
Total Number Taken 46.1  
Number Harvested Per Capita 0.11

SEA LION HARVEST <i>BY</i> SEASON													Unknown	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	ocl	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	4	0	3	0	0	0	1	0	2	1	1	2	11	25
Struck and Lost	2	0	0	0	0	0	0	0	0	0	0	0	6	10
Total Take	6	0	3	0	0	0	1	0	2	1	1	2	19	35
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.3	0.0	3.9	0.0	0.0	0.0	1.3	0.0	2.6	1.3	1.3	2.6	14.5	32.9
Struck and Lost	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	13.2
Total Take	7.9	0.0	3.9	0.0	0.0	0.0	1.3	0.0	2.6	1.3	1.3	2.6	25.0	461
ESTIMATED SEASONALLY AOJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.4	0.0	7.0	0.0	0.0	0.0	2.3	0.0	4.7	2.3	2.3	4.7		32.9
Struck and Lost	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		13.2
Total Take	22.6	0.0	7.0	0.0	0.0	0.0	2.3	0.0	4.7	2.3	2.3	4.7		46.1
Total Take (%)	49.0%	0.0%	15.3%	0.0%	0.0%	0.0%	5.1%	0.0%	10.2%	5.1%	5.1%	10.2%		100%
Cumulative Teke	22.6	22.6	29.6	29.6	29.6	29.6	32.0	32.0	36.7	39.0	41.4	46.1		
Cum. Take (%)	49.0%	49.0%	64.3%	64.3%	64.3%	64.3%	69.4%	69.4%	79.6%	64.7%	69.6%	100.0%		

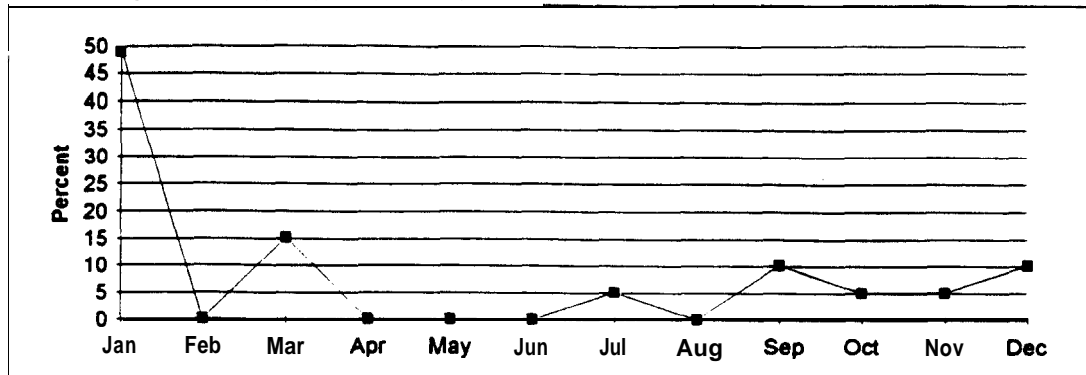
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	4	16.0%	5.3	18.0%
Adult Female	3	12.0%	3.9	12.0%
Adult Unknown Sex	1	4.0%	1.3	4.0%
Juvenile Male	3	12.0%	3.9	12.0%
Juvenile Female	2	8.0%	2.6	8.0%
Juvenile Unknown Sex	9	36.0%	11.8	36.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	3	12.0%	3.9	12.0%
Total	25	100.0%	32.9	100.0%

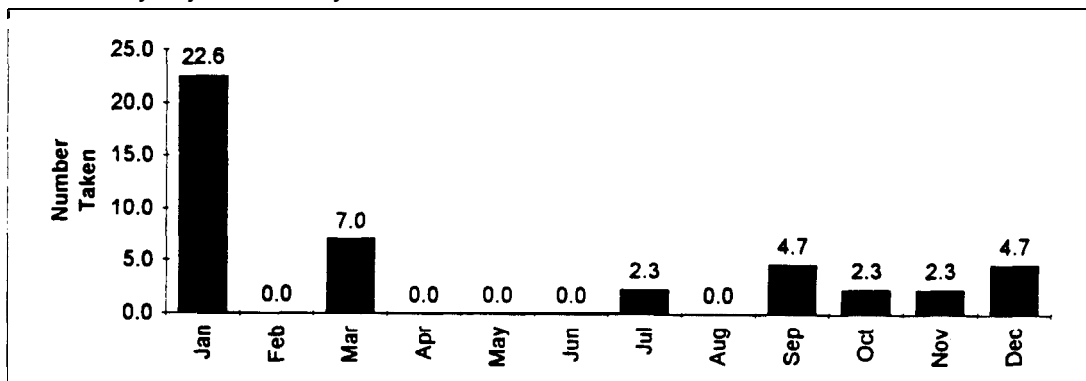
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council, 1993.

FIGURE 65. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: OLD HARBOR, 1992

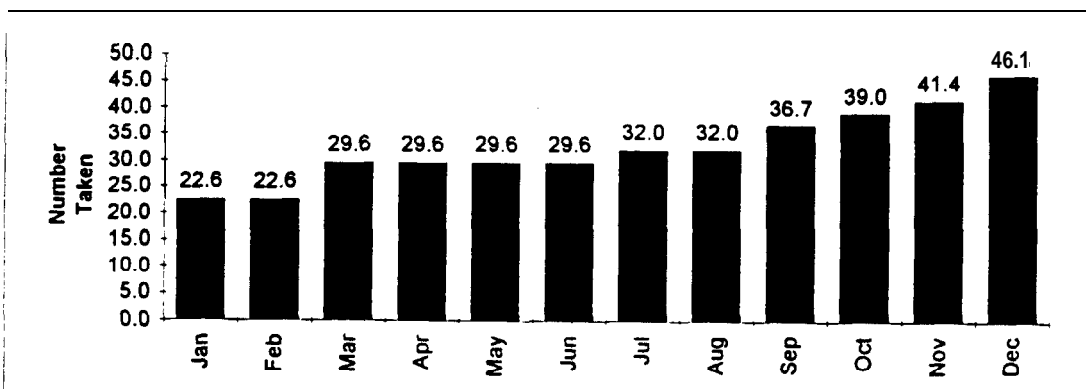
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council. 1993.

TABLE 66. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: OLD HARBOR, 1992

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	50	32	82
Surveyed Households	38	25	63
Sampling Fraction	76.0%	78.1%	76.8%
Sample Household Members	150	70	220
Estimated Household Members	197.4	89.8	287.0

## HARBOR SEAL HARVEST AND USE INFORMATION

**Percent** Of Native Households:

Used 81.0%  
Hunted 31.7%  
Harvested 25.4%  
Received 68.3%  
Gave Away 44.4%

Estimated Community **Harvest and Take** (Expanded):

Total Number Harvested 86.8  
Total Number Struck and Lost 7.6  
Total Number Taken 94.7  
Number Harvested Per Capita 0.30

HARBOR SEAL HARVEST <i>BY</i> SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	3	5	2	3	0	3	1	1	5	6	5	27	66
Struck and Lost	0	0	0	0	0	0	0	1	0	1	1	1	2	6
Total Teke	3	3	5	2	3	0	3	2	1	6	9	6	29	72
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.9	3.9	6.6	2.6	3.9	0.0	3.9	1.3	1.3	6.6	10.5	6.6	35.5	86.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	1.3	1.3	2.6	7.0
Total Take	3.9	3.9	6.6	2.6	3.9	0.0	3.9	2.6	1.3	7.9	11.0	7.9	38.1	94.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.7	6.7	11.1	4.5	6.7	0.0	6.7	2.2	2.2	11.1	17.0	11.1		86.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	2.0	2.0		7.8
Total Take	6.7	6.7	11.1	4.5	6.7	0.0	6.7	4.2	2.2	13.1	19.8	13.1		94.7
Total Take (%)	7.1%	7.1%	11.8%	4.7%	7.1%	0.0%	7.1%	4.4%	2.4%	13.6%	20.9%	13.0%		100%
Cumulative Take	6.7	13.4	24.5	26.9	35.6	35.6	42.3	46.5	46.7	61.8	81.6	94.7		
Cum. Take(%)	7.1%	14.1%	25.9%	30.6%	37.6%	37.6%	44.7%	49.1%	51.5%	65.3%	86.2%	100.0%		

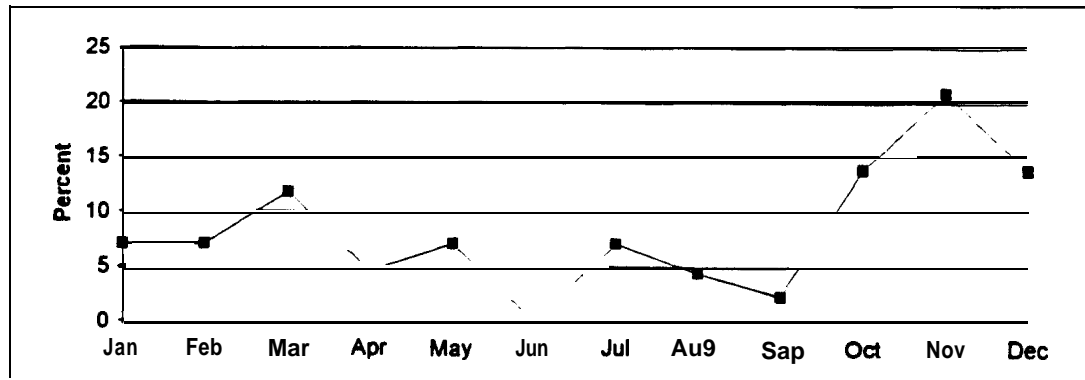
## HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample Percent		By Community percent	
	(Unexpanded)		(Expanded)	
Adult Male	29	43.9%	38.2	43.9%
Adult Female	13	19.7%	17.1	19.7%
Adult Unknown Sex	5	7.6%	6.6	7.6%
Juvenile Male	4	6.1%	5.3	6.1%
Juvenile Female	2	3.0%	2.6	3.0%
Juvenile Unknown Sex	12	18.2%	15.8	18.2%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	1.5%	1.3	1.5%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	66	100.0%	86.6	100.0%

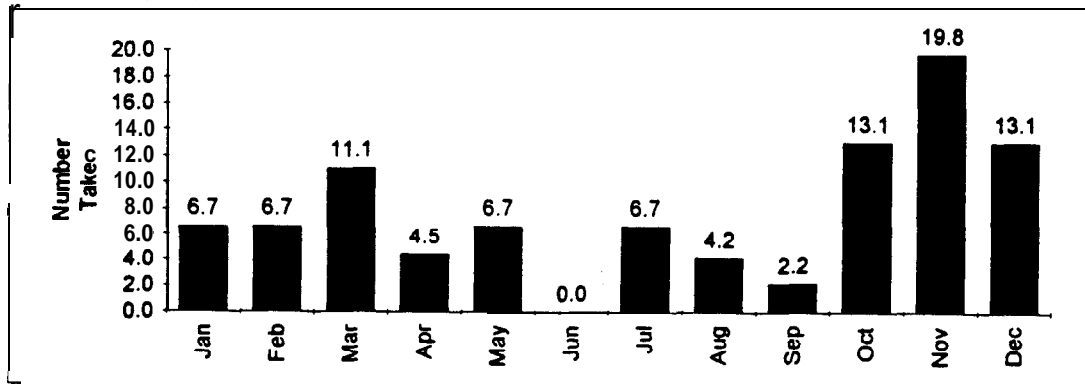
SOURCE: Alaska Department of Fish and Game. Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assistance from the City of Old Harbor and Old Harbor Tribal Council. 1993.

FIGURE 66. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: OLD HARBOR, 1992

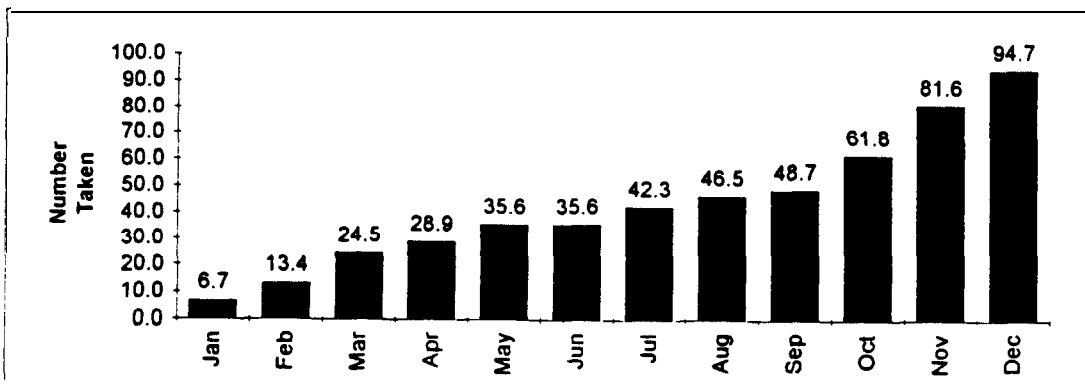
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council, 1993.

**TABLE 67. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: OUZINKIE, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	54
Surveyed Households	47
Sampling Fraction	87.0%
Sample Household Members	146
Estimated Household Members	167.7

**SEA LION HARVEST AND USE INFORMATION**

**Percent** Of **Native** Households:  
*used* 0.4%  
 Hunted 4.3%  
 Harvested 4.3%  
 Received 2.1%  
 Gave Away 4.3%

*Estimated Community Harvest and Teke (Expanded):*

Total Number Harvested	3.4
Total Number Strunk and Lost	0.0
Total Number Taken	3.4
Number Harvested Per Capita	0.02

SEA LION HARVEST <i>BY</i> SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	2	0	0	0	0	0	1	0	0	3
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	2	0	0	0	0	0	1	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	3.4
Struck end Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Teke	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	3.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0		3.4
Struck end Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0		3.4
Total Teke (%)	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%		100%
Cumulative Teke	0.0	0.0	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	100.0%	100.0%		

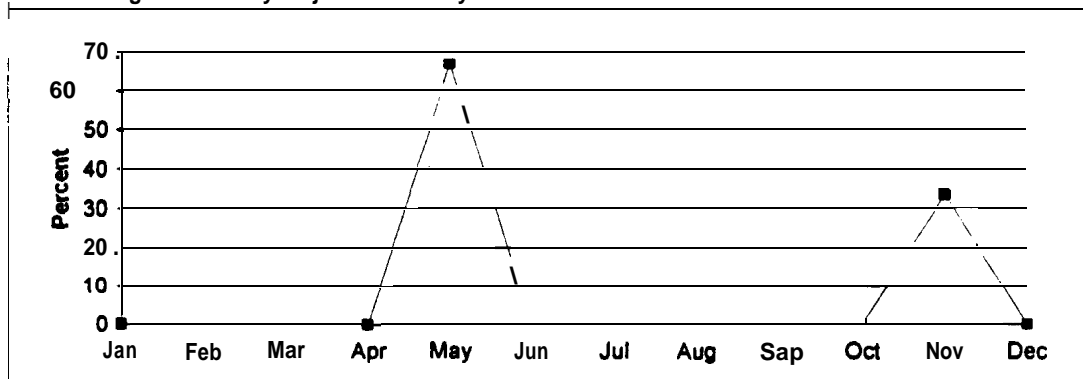
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample (Unexpanded)	Percent	By Community (Expanded)	Percent
Adult Male	1	33.3%	1.1	33.3%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	1	33.3%	1.1	33.3%
Juvenile Female	1	33.3%	1.1	33.3%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	3.4	100.0%

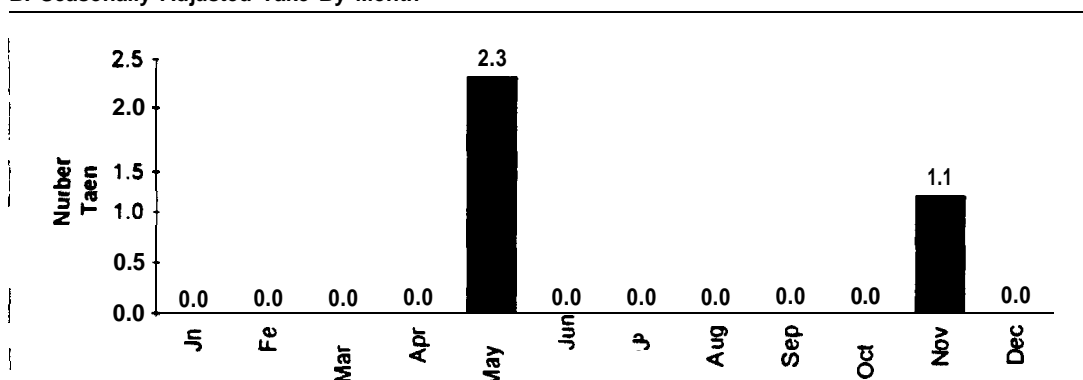
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 1993.

FIGURE 67. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: OUZINKIE, 1992

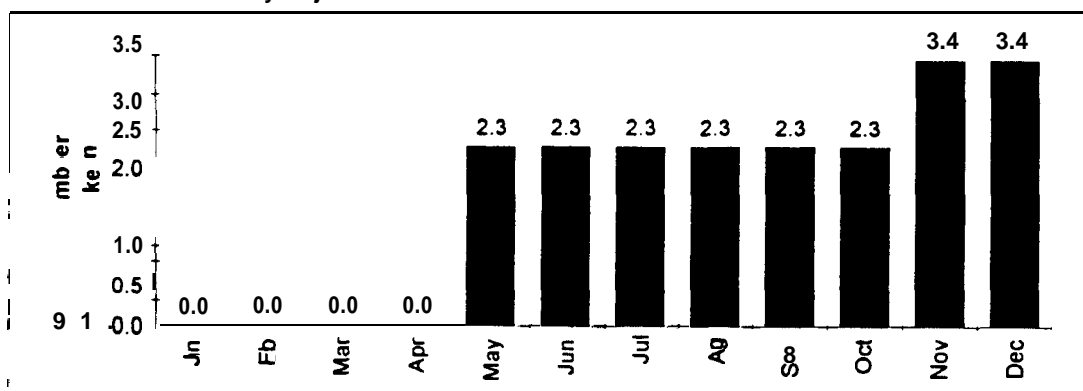
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 1993.

**TABLE 68. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: OUZINKIE, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	54
Surveyed Households	47
Sampling Fraction	87.0%
Sample Household Members	148
Estimated Household Members	167.7

**HARBOR SEAL HARVEST AND USE INFORMATION**

*Percent Of Native Households:*

**Used 53.2%**  
**Hunted 19.1%**  
**Harvested 19.1%**  
**Received 42.6%**  
**Gave Away 27.7%**

*Estimated Community Harvest and Take (Expanded):*

**Total Number Harvested 21.8**  
**Total Number Struck and Lost 1.1**  
**Total Number Taken 23.0**  
**Number Harvested Per Capita 0.13**

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	1	1	0	0	0	0	0	1	2	7	4	1	19
Struck and Lost	0	0	0	0	0	0	0	0	0	0	1	0	0	1
TotalTake	2	1	1	0	0	0	0	0	1	2	8	4	1	20
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0	1.1	2.3	8.0	4.6	1.1	21.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1
Total Taka	2.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0	1.1	2.3	9.2	4.6	1.1	23.0
ESTIMATED SEASONALLY ADJUSTEDHARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0	1.2	2.4	8.5	4.9		21.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0		1.1
Total Takr	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0	1.2	2.4	9.6	4.9		23.0
Total Take (%)	10.6%	5.3%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	10.6%	41.9%	21.1%		100%
CumulativeTake	2.4	3.6	4.9	4.9	4.9	4.9	4.9	4.9	6.1	6.5	18.1	23.0		
Cum. Take (%)	10.6%	15.8%	21.1%	21.1%	21.1%	21.1%	21.1%	21.1%	26.4%	36.9%	78.9%	100.0%		

**HARBOR SEAL HARVEST BY AGE AND SEX**

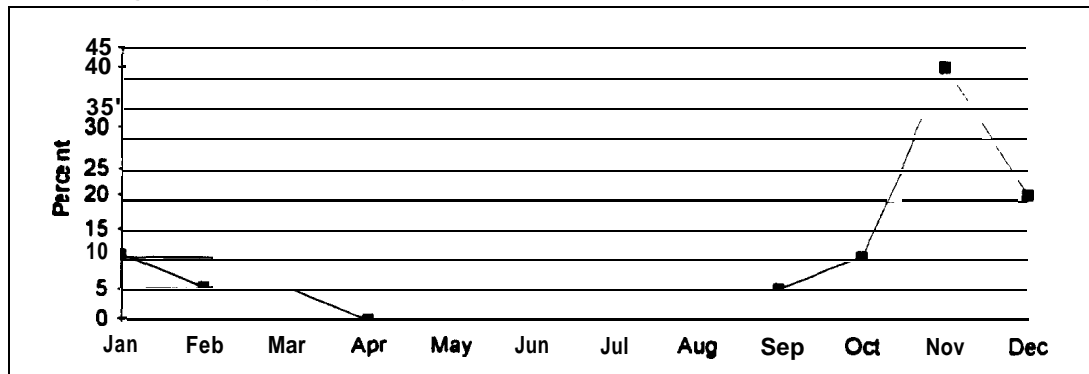
	<b>Reported</b>		<b>Estimated</b>	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	6	31.6%	6.9	31.6%
Adult Female	1	5.3%	1.1	5.3%
Adult Unknown Sex	2	10.5%	2.3	10.5%
Juvenile Male	5	26.3%	5.7	26.3%
Juvenile Female	2	10.5%	2.3	10.5%
Juvenile Unknown Sex	3	15.8%	3.4	15.8%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	19	100.0%	21.8	100.0%

**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 1993.

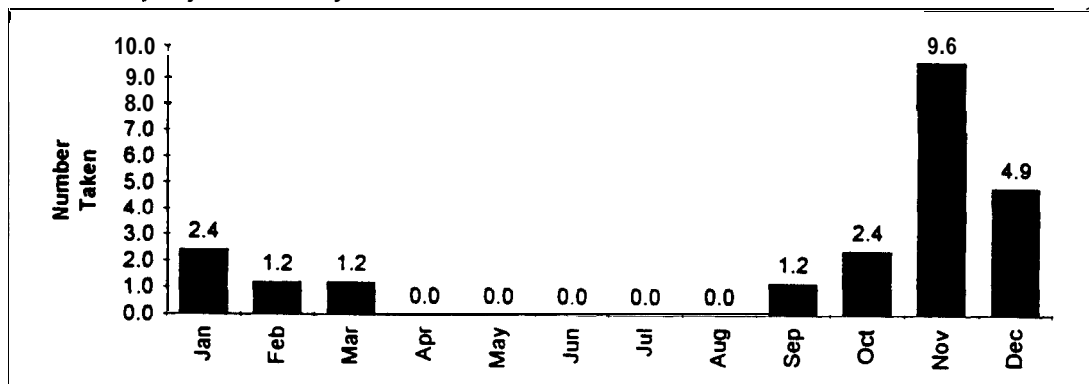


FIGURE 68. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: OUZINKIE, 1992

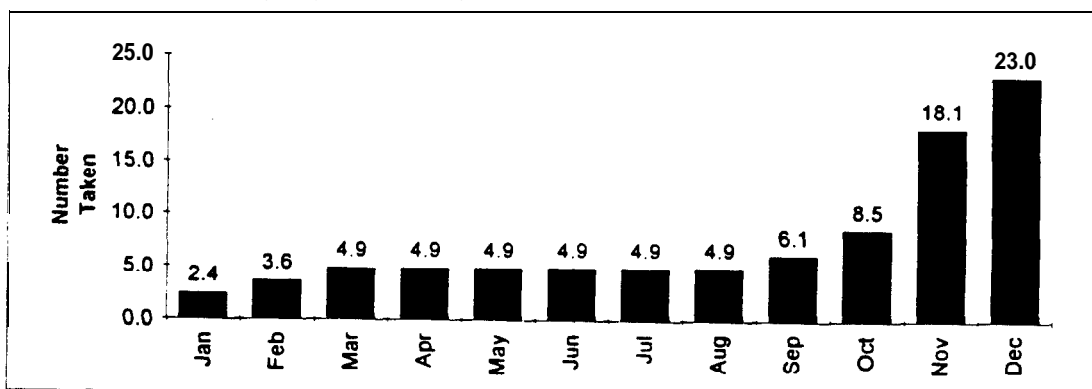
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council. 1993.

TABLE 99. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PORT LIONS, 1992

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	13	46	59
Surveyed Households	12	42	54
Sampling Fraction	92.3%	91.3%	91.5%
Sample Household Members	42	135	177
Estimated Household Members	45.5	147.9	193.4

## SEA LION HARVEST AND USE INFORMATION

Percent Of **Native Households:**  
 used 1.9%  
 Hunted 3.7%  
 Harvested 1.9%  
 Received 0.0%  
 Gave Away 0.0%

Estimated Community **Harvest and Take (Expanded):**  
 Total Number Harvested 1.1  
 Total Number Struck and Lost 2.2  
 Total Number Taken 3.2  
 Number Harvested Par Capita 0.01

SEA UON HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Struck and Lost	0	0	1	0	0	0	0	0	0	0	1	0	0	2
Total Take	0	0	2	0	0	0	0	0	0	0	1	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Struck and Lost	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.2
Total Take	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	3.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Struck and Lost	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0		2.2
Total Take	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0		3.2
Total Take (%)	0.0%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%		100%
Cumulative Take	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2		
Cum. Take (%)	0.0%	0.0%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	100.0%	100.0%		

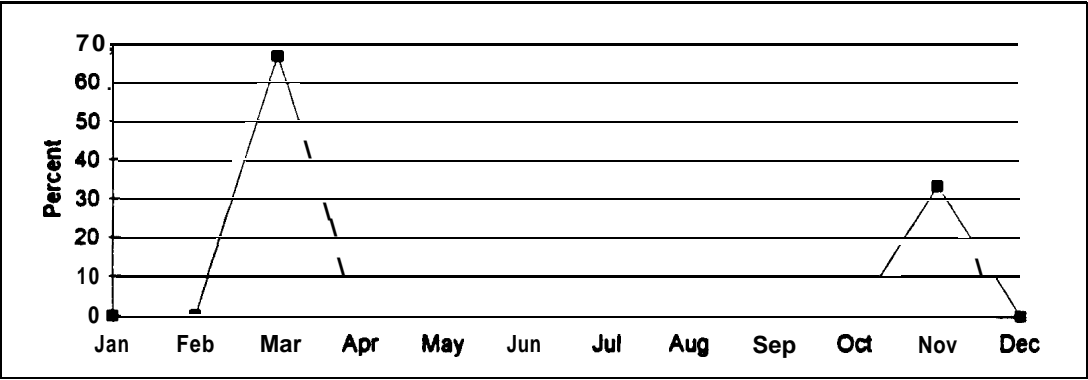
## SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	100.0%	1.1	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	1	100.0%	1.1	100.0%

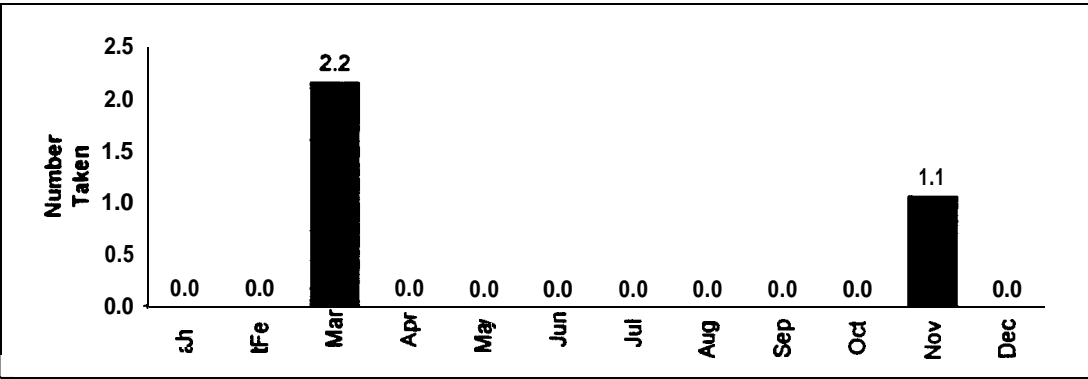
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study  
 • d Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from  
 the Port Lions Tribal Council and City of Port Lions, 1993.

FIGURE 69. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PORT LIONS, 1992

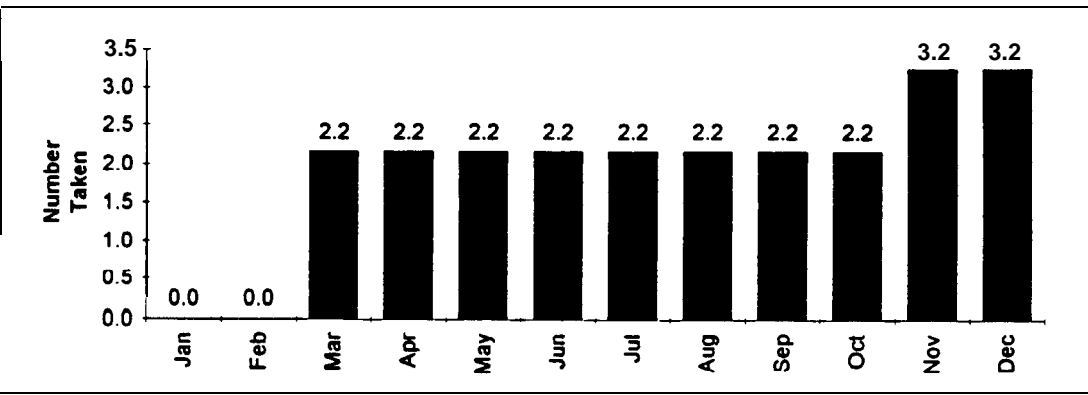
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions, 1993.

**TABLE 70. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PORT LIONS, 1992**

SAMPLING DESIGN: **TWO** STRATA

	Active	Other	Total
Total Native Households	13	46	59
Surveyed Households	12	42	54
Sampling Fraction	92.3%	91.3%	91.5%
Sample Household Members	42	135	177
Estimated Household Members	45.5	147.9	193.4

**HARBOR SEAL HARVEST AND USE INFORMATION**

Percent Of Nativ Households:

Used 20.4%  
Hunted 13.0%  
Harvested 13.0%  
Received 14.8%  
Gave Away 13.0%

Estimated Community **Harvest and Take** (Expanded):

Total Number Harvested 36.9  
Total Number **Struck and Lost** 2.2  
Total Number Taken 39.1  
Number Harvested Per Capita 0.19

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	2	0	1	2	1	3	0	3	4	3	3	10	34
Struck and Lost	0	0	0	0	0	0	0	0	0	1	1	0	0	2
Total Take	2	2	0	1	2	1	3	0	3	5	4	3	10	36
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.2	2.2	0.0	1.1	2.2	1.1	3.3	0.0	3.3	4.4	3.3	3.3	10.8	36.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0	2.2
Total Take	2.2	2.2	0.0	1.1	2.2	1.1	3.3	0.0	3.3	5.4	4.3	3.3	10.6	39.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.1	3.1	0.0	1.5	3.1	1.5	4.6	0.0	4.6	6.2	4.6	4.6		36.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0		2.2
Total Take	3.1	3.1	0.0	1.5	3.1	1.5	4.6	0.0	4.6	7.2	5.7	4.6		39.1
Total Take (%)	7.9%	7.9%	0.0%	3.9%	7.9%	3.9%	11.6%	0.0%	11.9%	16.5%	14.5%	11.6%		100%
Cumulative Take	3.1	6.2	6.2	7.7	10.6	12.3	16.9	16.9	21.6	26.6	34.5	39.1		
Cum. Take (%)	7.9%	16.6%	15.6%	19.7%	27.6%	31.5%	43.3%	43.3%	55.1%	73.7%	88.2%	100.0%		

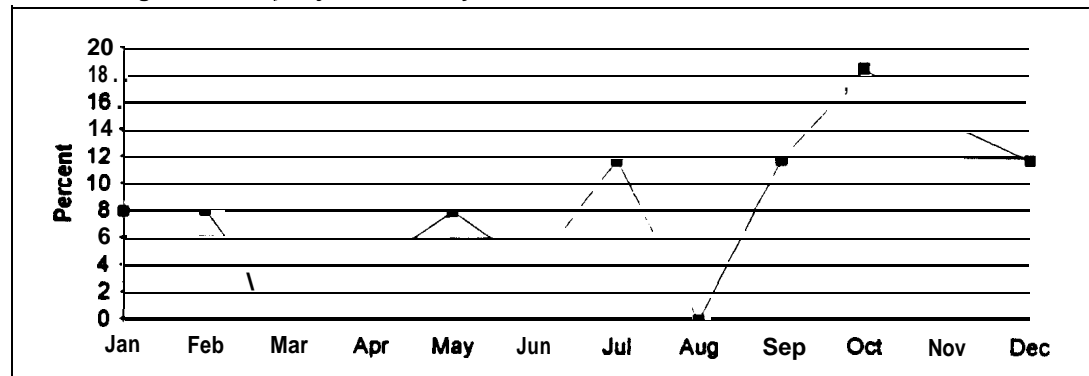
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	5.9%	2.2	5.9%
Adult Female	1	2.9%	1.1	2.9%
Adult Unknown Sex	7	20.6%	7.6	20.7%
Juvenile Male	10	29.4%	10.8	29.3%
Juvenile Female	2	5.9%	2.2	5.9%
Juvenile Unknown Sex	2	5.9%	2.2	5.9%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	10	29.4%	10.8	29.3%
Total	34	100.0%	36.9	100.0%

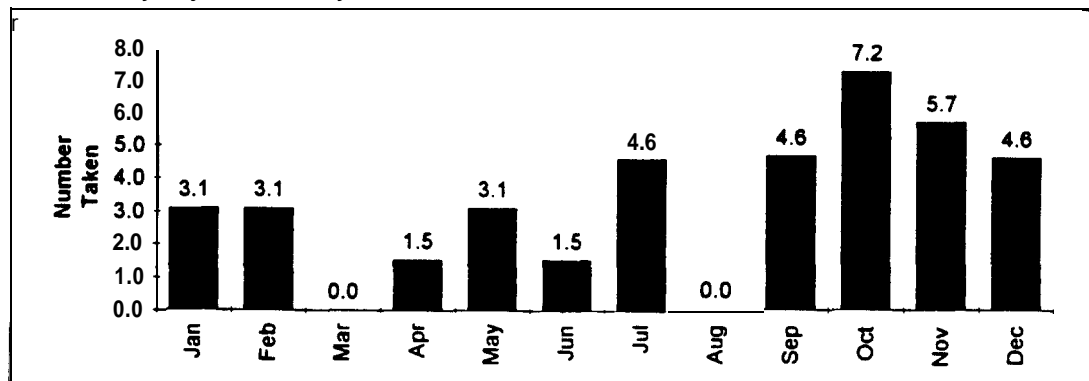
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions, 1993.

FIGURE 70. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PORT LIONS, 1992

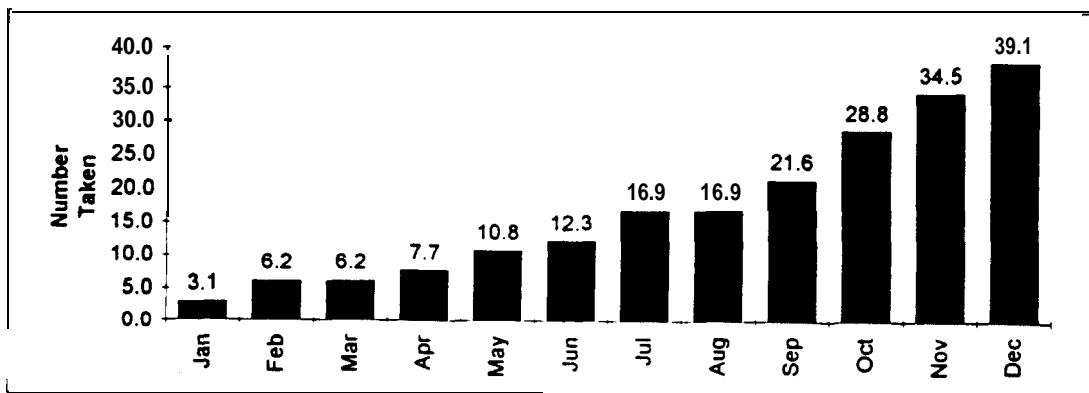
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with information from the Port Lions Tribal Council and City of Port Lions, 1993.



## **SOUTH ALASKA PENINSULA**

**TABLE 71. SEA LION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: CHIGNIK BAY, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	31
Surveyed Households	26
Sampling Fraction	63.9%
Sample Household Members	90
Estimated Household Members	107.3

**SEA LION HARVEST AND USE INFORMATION**

*Percent Of Native Households:*

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

**SEA LION HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

**SEA LION HARVEST BY AGE AND SEX**

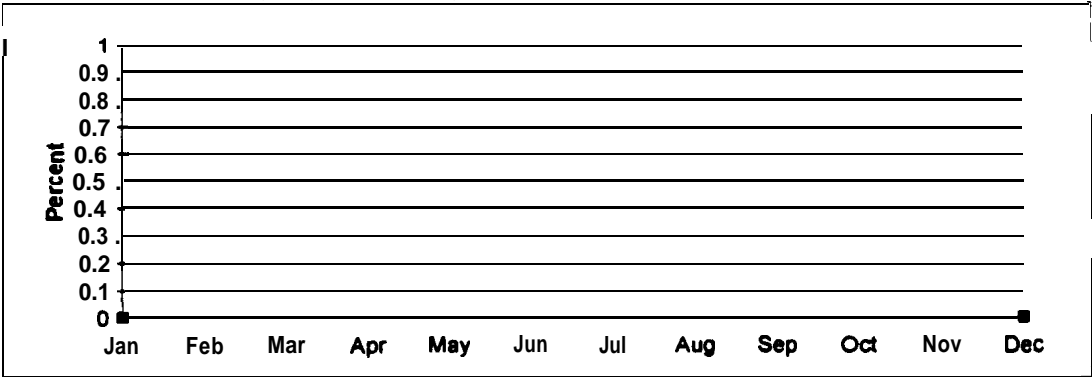
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

**SOURCE:** Alaska Department of Fish and Game. Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Village Council. 1993.

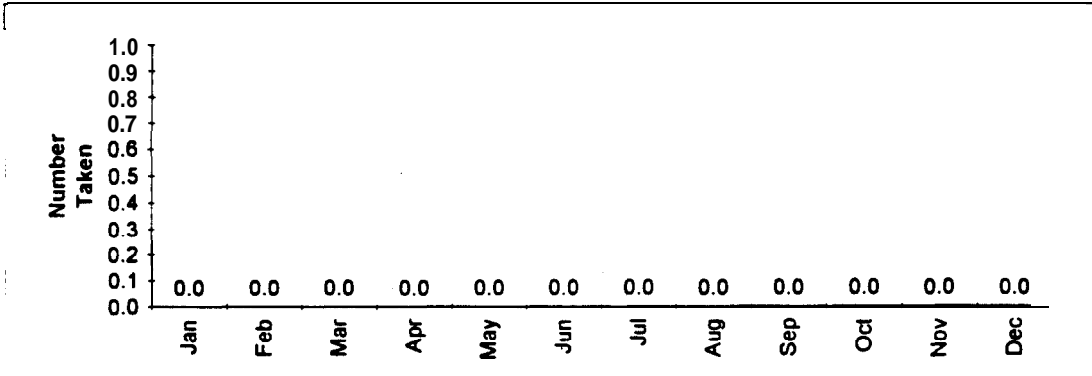


FIGURE 71. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: CHIGNIK BAY, 1992

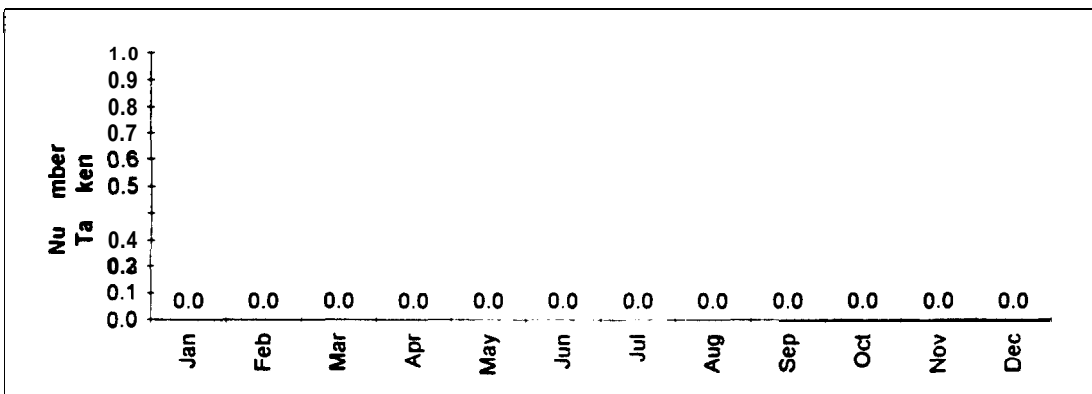
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Village Council, 1993.

**TABLE 72. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CHIGNIK BAY, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	31
Surveyed Households	26
Sampling Fraction	83.9%
Sample Household Members	90
Estimated Household Members	107.3

*HARBOR SEAL HARVEST AND USE INFORMATION*

Percent Of Native Households:	Estimated Community Harvest and Take (Expanded):
used 30.5%	Total Number Harvested 2.4
Hunted 11.5%	Total Number Struck and Lost 1.2
Harvested 7.7%	Total Number Taken 3.6
Received 30.8%	Number Harvested Per Capita 0.02
Gave Away 7.7%	

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	0	0	0	0	0	0	0	1	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total Take	0	0	1	0	0	0	0	0	0	0	1	0	1	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	2.4
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
Total Take	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	3.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0		2.4
Struck and Lost	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.2
Total Take	0.1	0.1	1.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.3	0.1		3.6
Total Take (X)	2.8%	2.8%	36.1%	2.6%	2.8%	2.6%	2.6%	2.8%	2.6%	2.6%	36.1%	2.6%		100%
Cumulative Take	0.1	0.2	1.5	1.6	1.7	1.0	1.9	2.0	2.1	2.2	3.5	3.6		
Cum. Taka (%)	2.6%	5.6%	41.7%	44.4%	47.2%	50.0%	52.6%	55.6%	56.3%	61.1%	97.2%	100.0%		

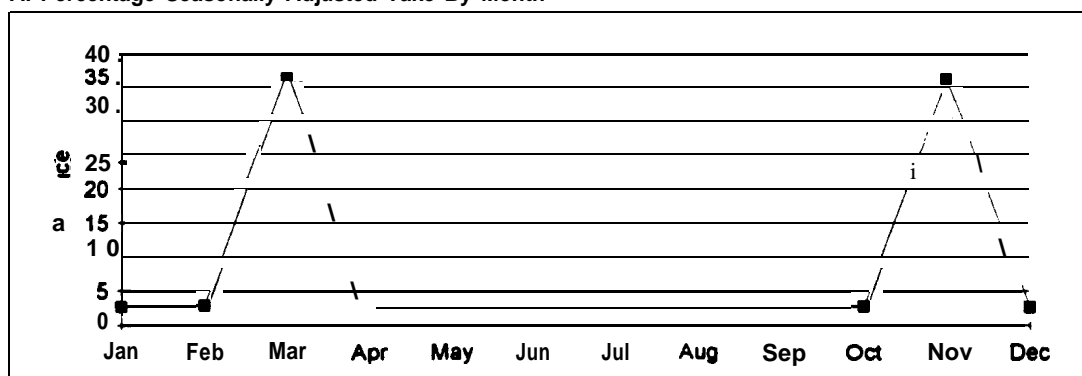
*HARBOR SEAL HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	2	100.0%	2.4	100.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	2.4	100.0%

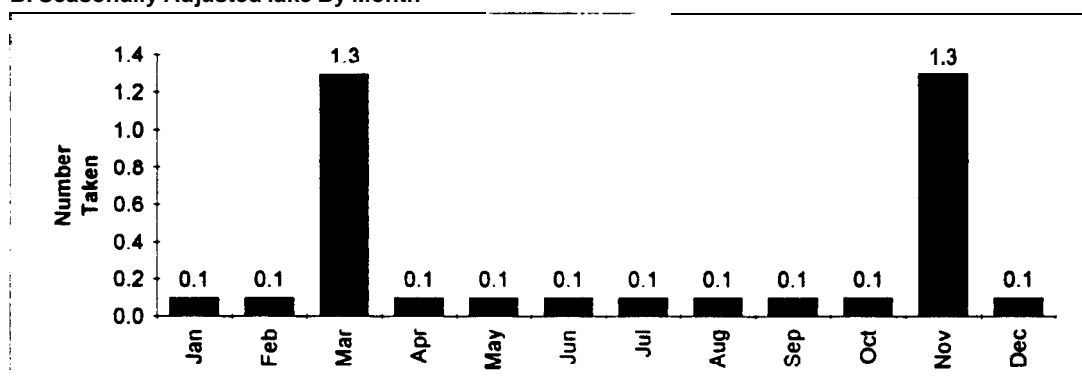
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Village Council, 1993

FIGURE 72. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CHIGNIK BAY, 1992

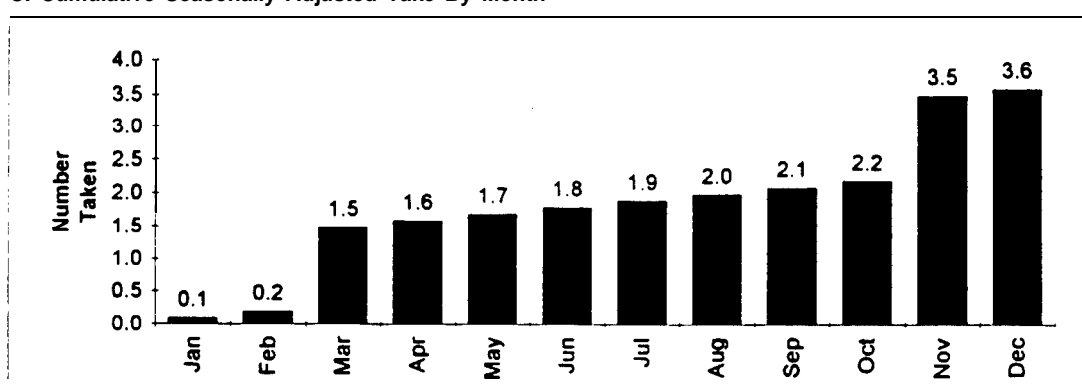
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Village Council, 1993.

TABLE 73. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: CHIGNIK LAGOON, 1992**SAMPLING DESIGN: CENSUS**

Total Native Households	19
Surveyed Households	19
Sampling Fraction	100.0%
Sample Household Members	59
Estimated Household Members	59.0

**SEA LION HARVEST AND USE INFORMATION**

**Percent** Of Native Households:  
used 0.0%

Hunted 0.0%

Harvested 0.0%

Received 0.0%

Gave Away 0.0%

Estimated Community **Harvest** and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST <i>BY</i> SEASON												Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)													
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)													
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)													
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

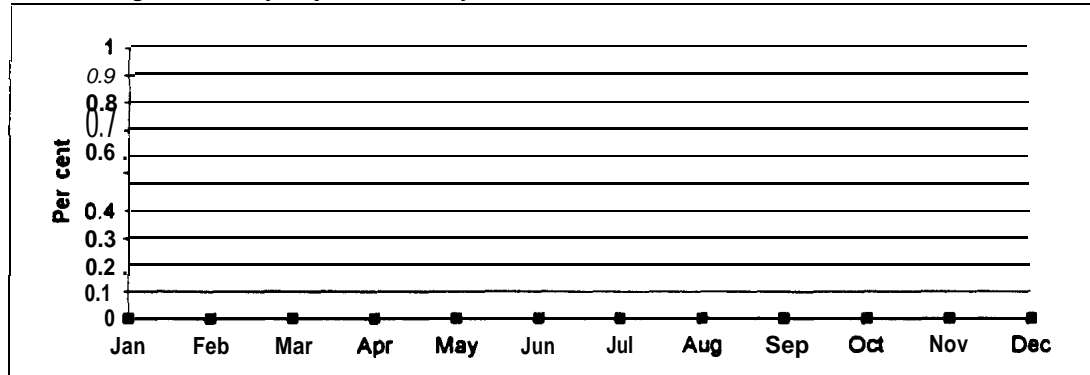
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	--
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	--	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	--	0.0	--
Pup Female	0	---	0.0	--
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	--
Unknown Sex and Age	0	--	0.0	--
Total	0	---	0.0	--

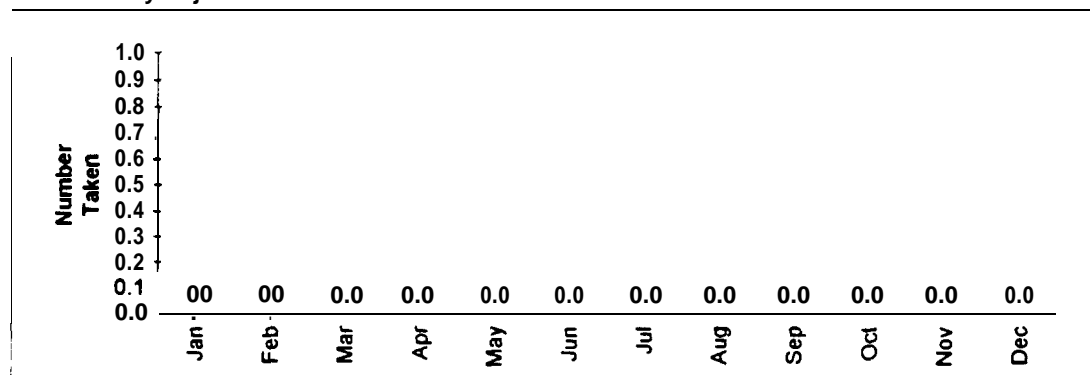
SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council, 1993.

FIGURE 73. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: CHIGNIK LAGOON, 1992

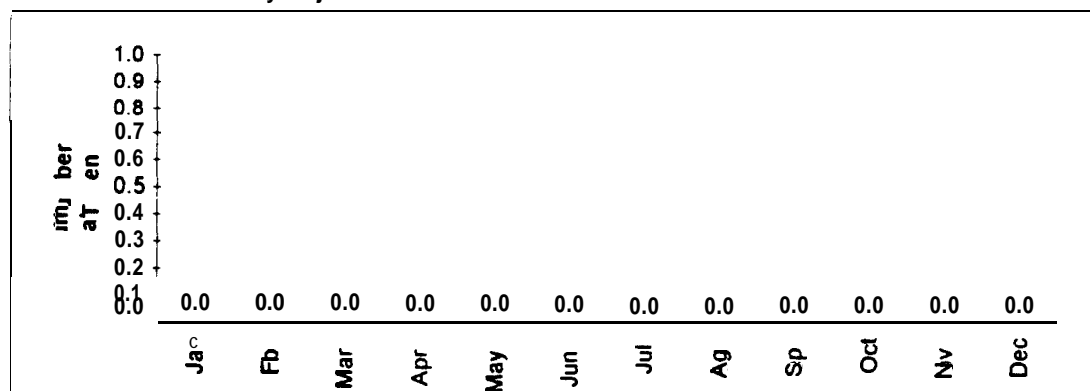
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council, 1993

**TABLE 74. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CHIGNIK LAGOON, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	19
Surveyed Households	19
Sampling Fraction	100.0%
Sample Household Members	59
Estimated Household Members	59.0

*HARBOR SEAL HARVEST AND USE INFORMATION*

<i>Percent Of Native Households:</i>	<i>Estimated Community Harvest and Take (Expanded):</i>
used 10.5%	Total Number Harvested 4.0
Hunted 10.5%	Total Number Struck and Lost 0.0
Harvested 10.5%	Total Number Taken 4.0
Received 0.0%	Number Harvested Per Capita 0.07
Gave Away 10.5%	

HARBOR SEAL HARVEST <i>BY SEASON</i>												Unknown		Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNWPANDED)														
Harvest	0	0	1	0	0	0	0	1	0	1	1	0	4	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	1	0	0	0	0	1	0	1	1	0	4	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	4.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	4.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (WPANDED)														
Harvest	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0		4.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0		4.0	
Total Take (%)	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	25.0%	0.0%	25.0%	25.0%		log%	
Cumulative Take	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0	4.0			
Cum. Take (%)	0.0%	0.0%	25.0%	25.0%	25.0%	25.0%	25.0%	50.0%	50.0%	75.0%	100.0%			

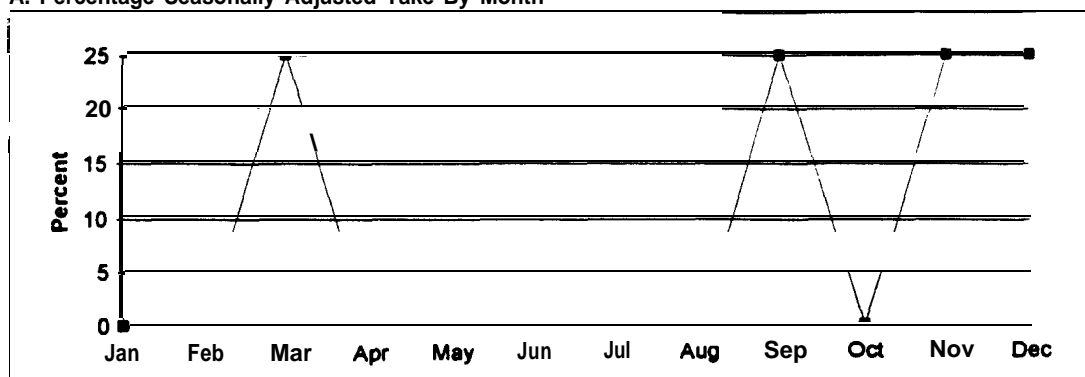
*HARBOR SEAL HARVEST BY AGE AND SEX*

	<i>Reported</i>		<i>Estimated</i>	
	<i>By Sample Percent</i>		<i>By Community Percent</i>	
	<i>(Unexpanded)</i>		<i>(Expanded)</i>	
Adult Male	3	75.0%	3.0	75.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	25.0%	1.0	25.0%
Total	4	100.0%	4.0	100.0%

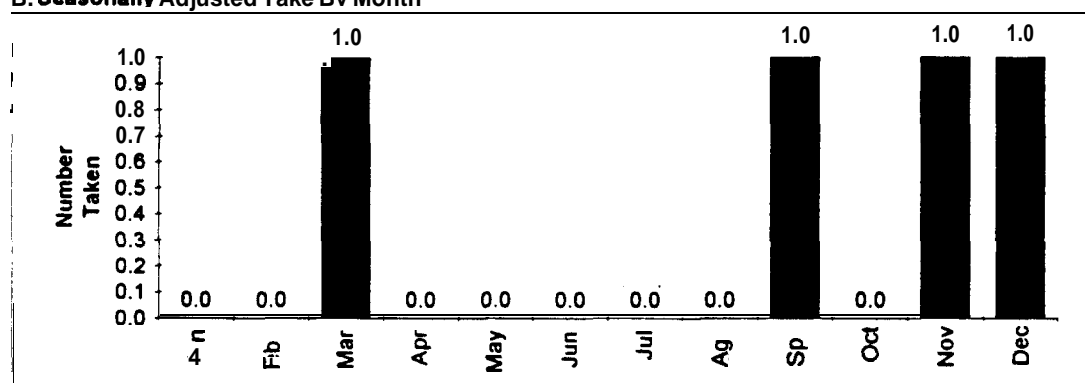
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council, 1993.

FIGURE 74. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CHIGNIK LAGOON, 1992

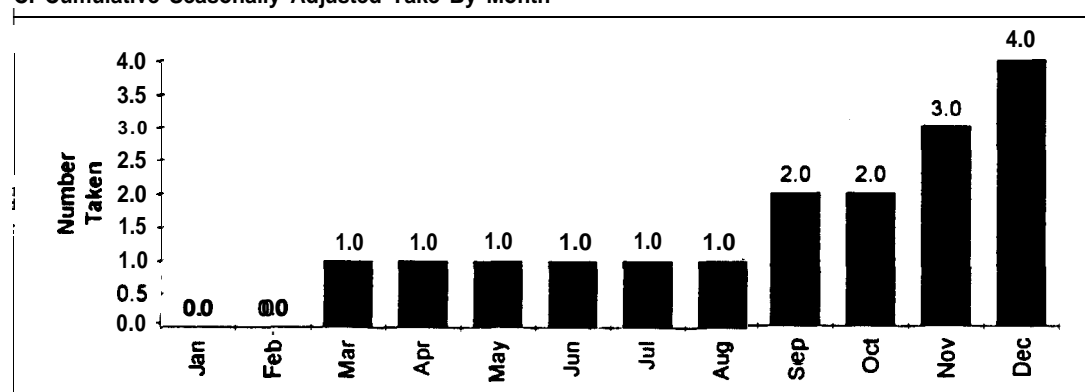
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assistance from the Chignik Lagoon Traditional Village Council, 1993.

**TABLE 75. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: CHIGNIK LAKE, 1992**

SAMPLING DESIGN: CENSUS

Total Native Households	31
Surveyed Households	30
Sampling Fraction	96.8%
Sample Household Members	118
Estimated Household Members	121.9

SEA LION HARVEST AND USE INFORMATION

Percent Of **Native** Households:  
 used 0.0%  
 Hunted 0.0%  
 Harvested 0.0%  
 Received 0.0%  
 Gave Away 0.0%

Estimated Community **Harvest** and Take (Expend):  
 Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita 0.00

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BYSAMPLED HOUSEHOLDS(UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Hat-vast	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Taka	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Taka (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Taka(%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

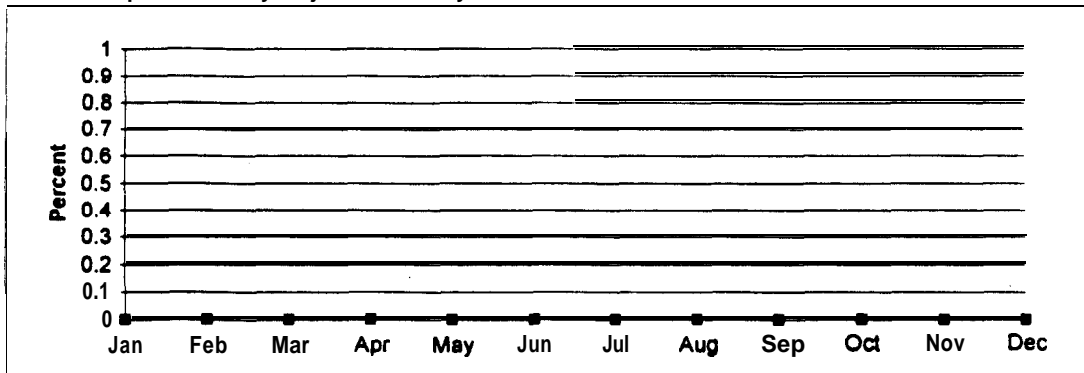
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	--	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	--	0.0	--
Juvenile Female	0	--	0.0	---
Juvenile Unknown Sex	0	--	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	--
Unknown Sex and Age	0	---	0.0	--
Total	0	---	0.0	--

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council. 1993.

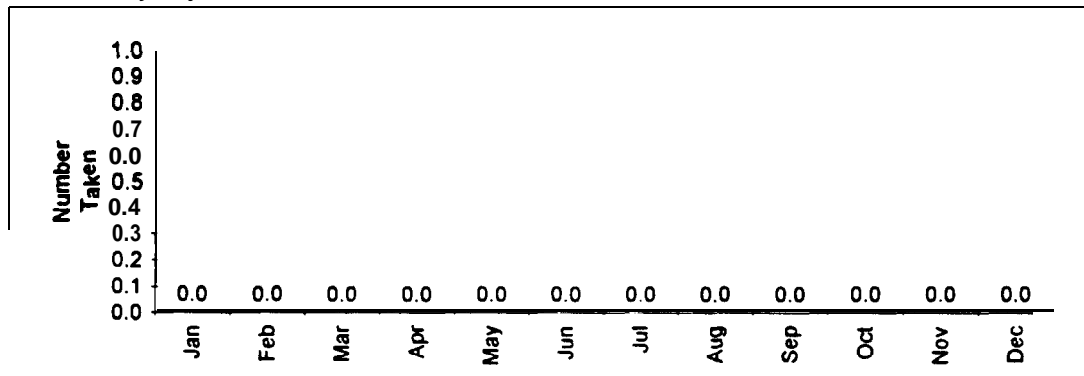


FIGURE 76. SEA LION (*Eumetopias jubetus*) TAKE ESTIMATES: CHIGNIK LAKE, 1992

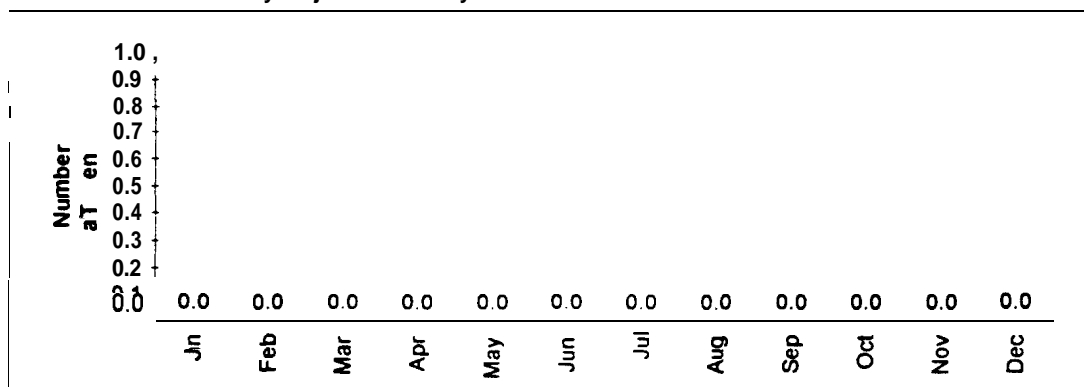
A. Percent Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 1993

**TABLE 76. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CHIGNIK LAKE, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	31
Surveyed Households	30
Sampling Fraction	98.8%
Sample Household Members	116
Estimated Household Members	121.9

*HARBOR SEAL HARVEST AND USE INFORMATION*

**Percent** Of Native Households:  
 used 53.3%  
 Hunted 40.0%  
 Harvested 20.0%  
 Received 50.0%  
 Gave Away 23.3%

*Estimated Community Harvest and Take (Expanded):*  
 Total Number Harvested 8.3  
 Total Number Struck and Lost 2.1  
 Total Number Taken 10.3  
 Number Harvested Per Capita 0.07

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	1	0	2	1	0	2	2	0	0	6
Struck and Lost	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Total Take	0	0	0	0	1	0	3	2	0	2	2	0	0	10
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.0	0.0	2.1	1.0	0.0	2.1	2.1	0.0	0.0	6.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	2.1
Total Take	0.0	0.0	0.0	0.0	1.0	0.0	3.1	2.1	0.0	2.1	2.1	0.0	0.0	10.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.0	0.0	2.1	1.0	0.0	2.1	2.1	0.0	0.0	6.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	2.1
Total Take	0.0	0.0	0.0	0.0	1.0	0.0	3.1	2.1	0.0	2.1	2.1	0.0	0.0	10.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	30.0%	20.0%	0.0%	20.0%	20.0%	0.0%	0.0%	100%
Cumulative Take	0.0	0.0	0.0	0.0	1.0	1.0	4.1	6.2	6.2	6.3	10.3	10.3	10.3	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	10.0%	10.0%	40.0%	60.0%	60.0%	80.0%	100.0%	100.0%	100.0%	

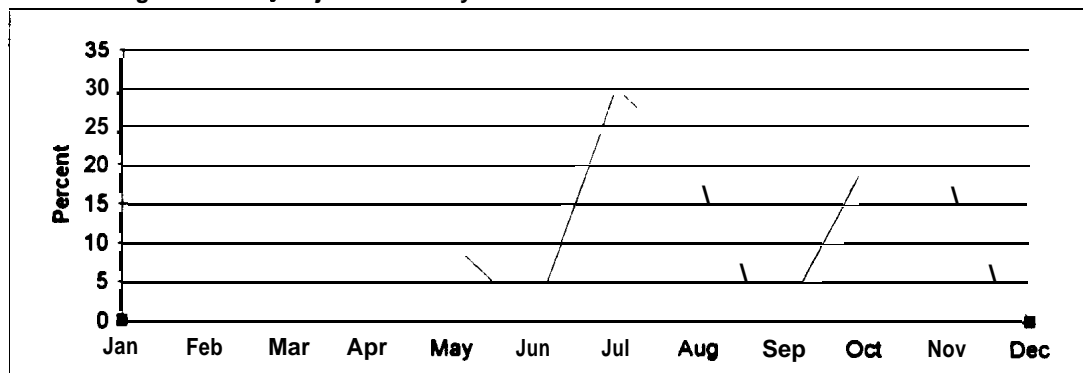
*HARBOR SEAL HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	5	62.5%	5.2	62.5%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	12.5%	1.0	12.5%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	2	25.0%	2.1	25.0%
Total	8	100.0%	8.3	100.0%

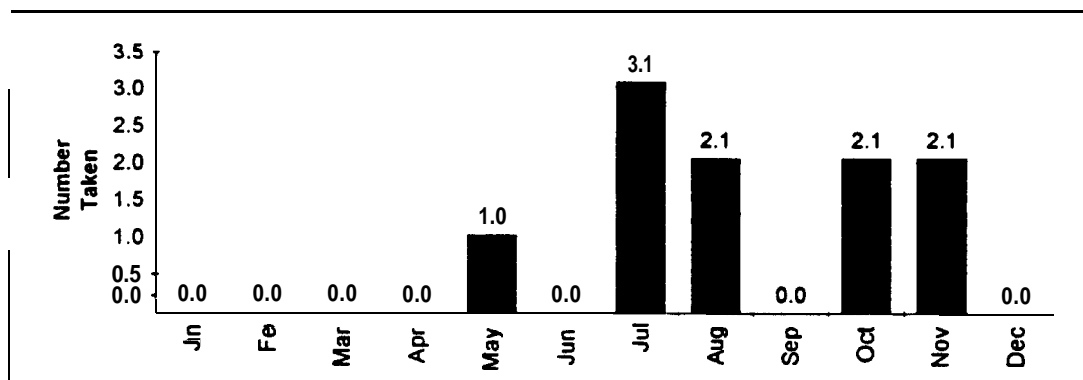
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 1993.

FIGURE 76. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CHIGNIK LAKE, 1992

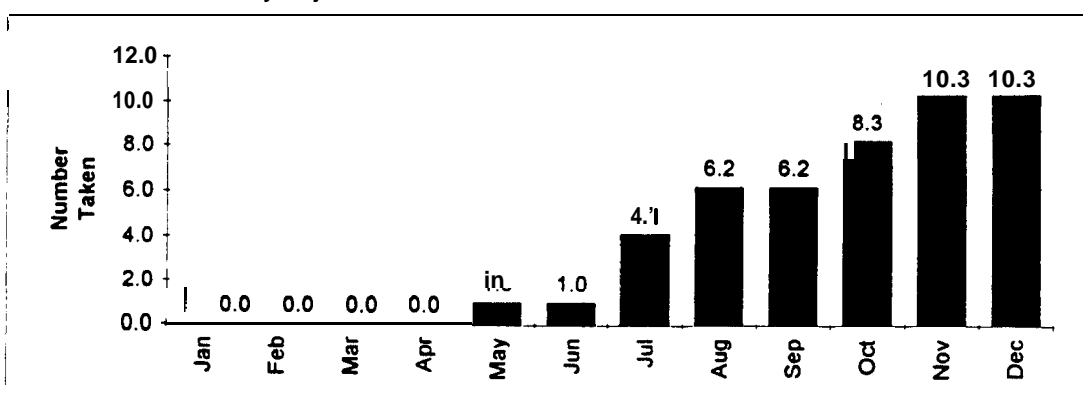
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 1993.

TABLE 77. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: FALSE PASS, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	18
Surveyed Households	17
Sampling Fraction	94.4%
Sample Household Members	50
Estimated Household Members	52.9

SEA LION HARVEST AND USE INFORMATION

Percent Of Native **Households:**  
*used* 0.0%  
 Hunted 0.0%  
 Harvested 0.0%  
 Received 0.0%  
 Gave Away 0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

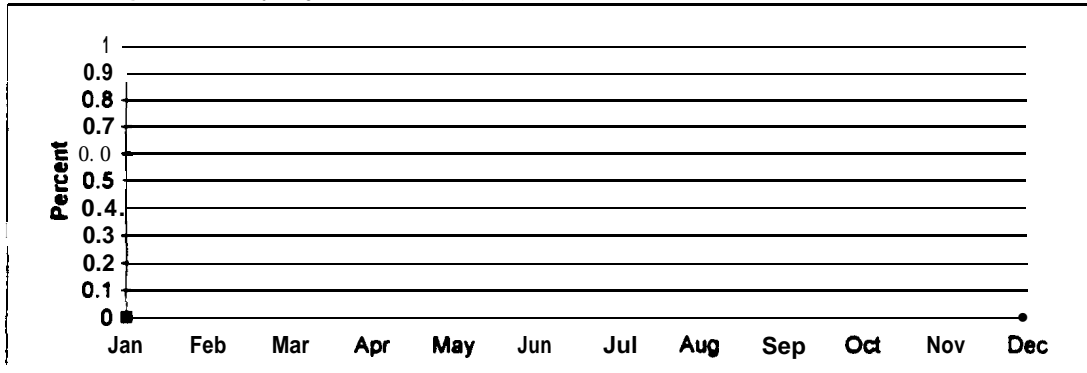
SEA LION HARVEST BY AGE AND SEX

	Responded		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	--
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	--	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	--
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	--
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

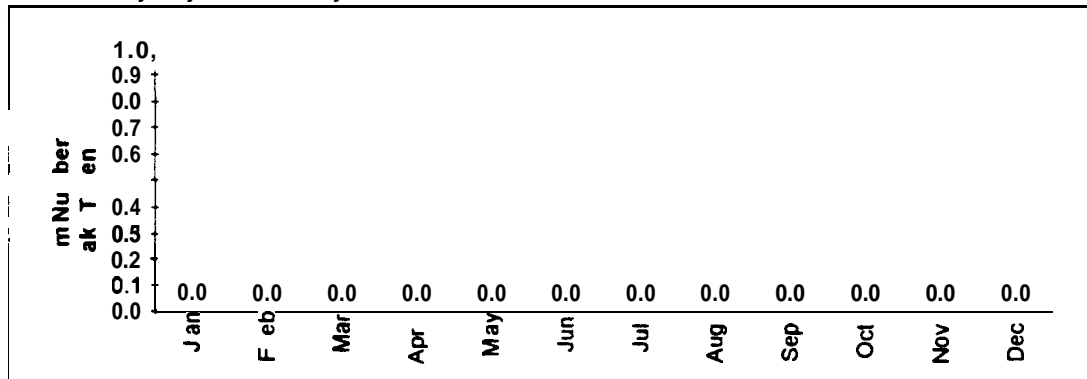
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass. 1993.

FIGURE 77. SEA LION(*Eumetopias jubatus*) TAKE ESTIMATES: FALSE PASS, 1992

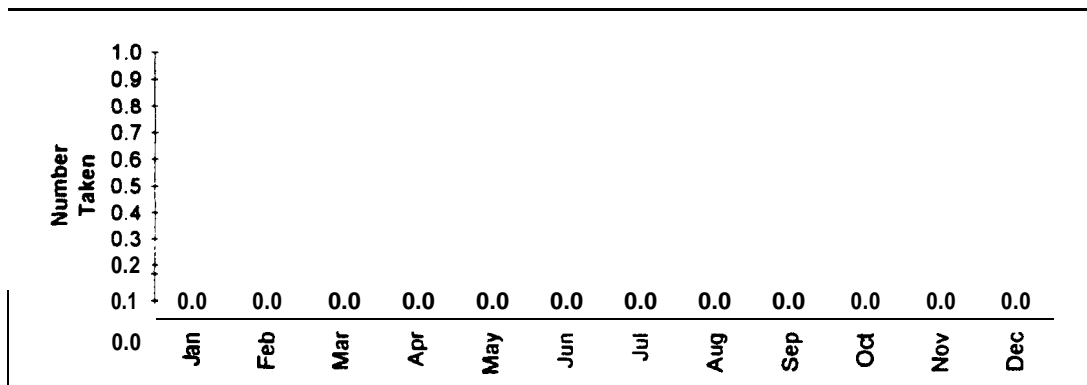
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass, 1993.

**TABLE 78. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: FALSE PASS, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	18
Surveyed Households	17
Sampling Fraction	94.4%
Sample Household Members	50
Estimated Household Members	52.9

**HARBOR SEAL HARVEST AND USE INFORMATION**

**Percent** Of **Native** Households:

Used 62.4%  
Hunted 47.1%  
Harvested 35.3%  
Received 70.6%  
Gave Away 41.2%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 18.0  
Total Number Strunk and Lost 0.0  
Total Number Taken 18.0  
Number Harvested Per Capita 0.34

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	2	0	1	1	1	0	2	1	3	2	2	0	17
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	2	0	1	1	1	0	2	1	3	2	2	0	17
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.1	2.1	0.0	1.1	1.1	1.1	0.0	2.1	1.1	3.2	2.1	2.1	0.0	18.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	2.1	2.1	0.0	1.1	1.1	1.1	0.0	2.1	1.1	3.2	2.1	2.1	0.0	18.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.1	2.1	0.0	1.1	1.1	1.1	0.0	2.1	1.1	3.2	2.1	2.1		18.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	2.1	2.1	0.0	1.1	1.1	1.1	0.0	2.1	1.1	3.2	2.1	2.1		18.0
Total Take (X)	11.8%	11.0%	0.0%	6.9%	5.9%	6.9%	0.0%	11.8%	6.9%	17.6%	11.8%	11.8%		100%
Cumulative Take	2.1	4.2	4.2	5.3	6.4	7.4	7.4	9.5	10.6	13.6	15.9	18.0		
Cum. Take (%)	11.6%	23.5%	23.5%	29.4%	36.3%	41.2%	41.2%	62.9%	68.6%	76.5%	88.2%	100.0%		

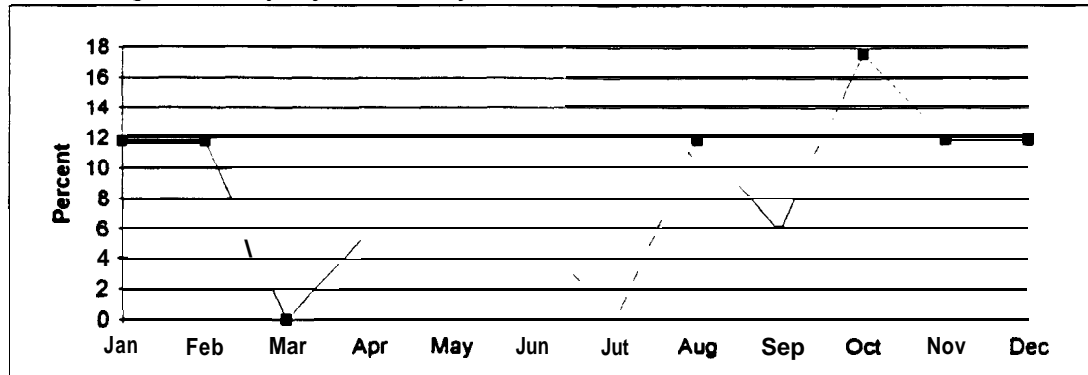
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	7	41.2%	7.4	41.2%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	5	29.4%	5.3	29.4%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	4	23.5%	4.2	23.5%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	1	5.9%	1.1	5.9%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	17	100.0%	18.0	100.0%

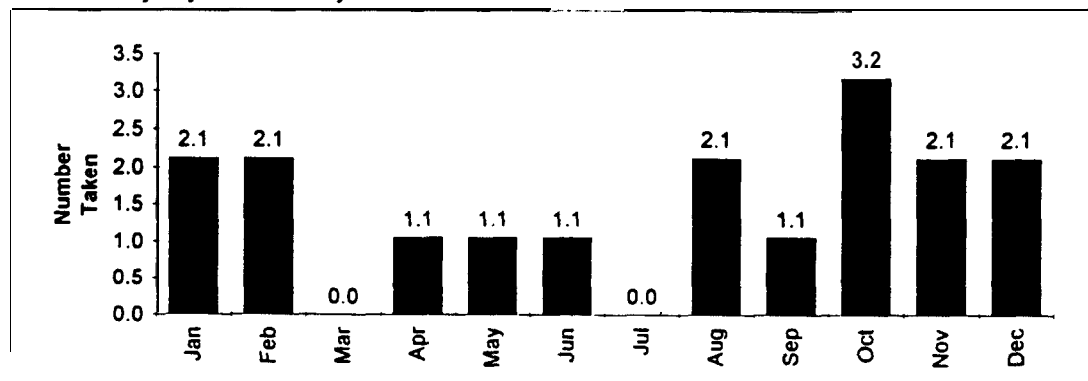
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and city of False Pass, 1993.

FIGURE 78. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: FALSE PASS, 1992

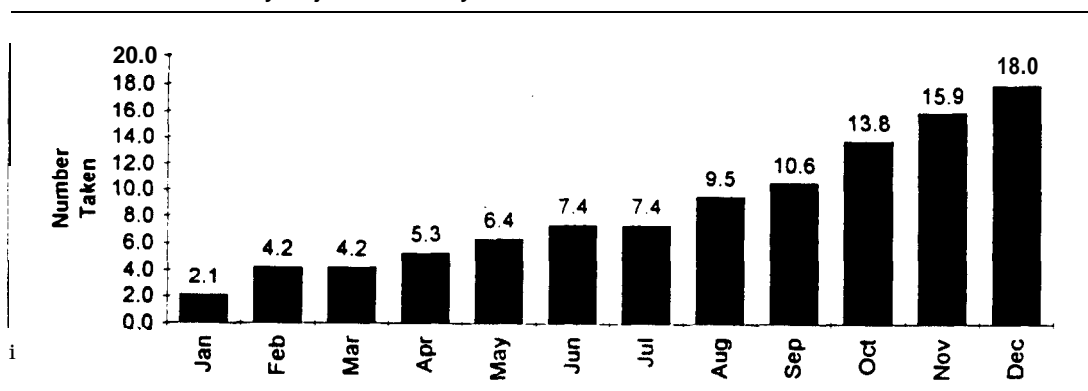
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with • ssetanw from the False Pass Tribal Council and City of False Pass, 1993.

**TABLE 79. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: IVANOF BAY, 1992**

SAMPLING DESIGN: CENSUS

Total Native Households	8
Surveyed Households	8
Sampling Fraction	100.0%
Sample Household Members	32
Estimated Household Members	32.0

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:  
used 0.0%

Hunted 12.5%  
Harvested 0.0%  
Received 0.0%  
Gave Away 0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 0.0  
Total Number Strunk and Lost 0.0  
Total Number Taken 0.0  
Number Harvested Per Capita 0.00

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---			---	---	---	---	---		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

SEA LION HARVEST BY AGE AND SEX

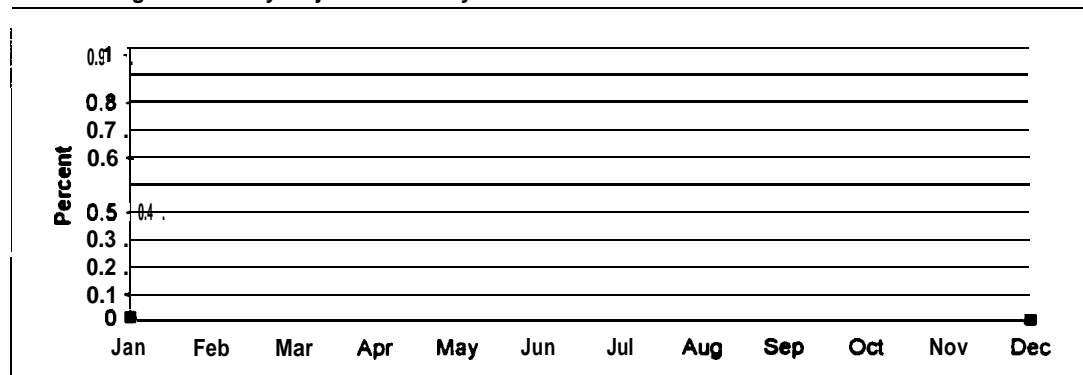
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	--
Juvenile Female	0	---	0.0	--
Juvenile Unknown Sex	0	---	0.0	--
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	--
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bay Traditional Village Council, 1993.

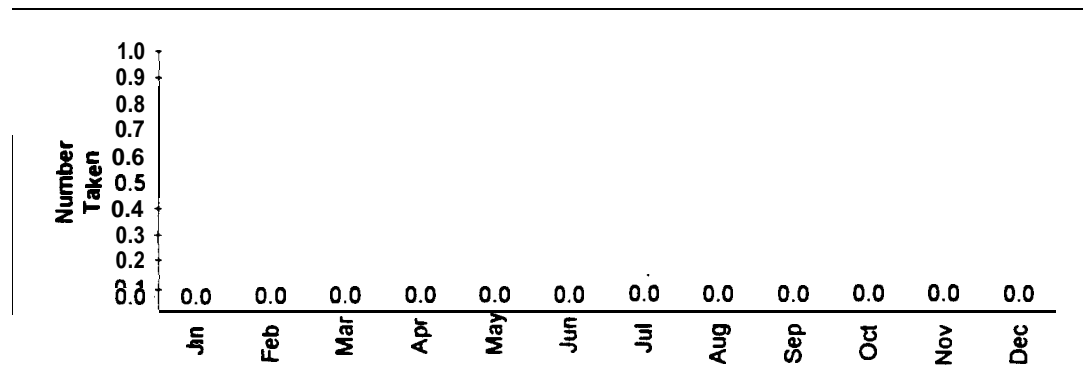


FIGURE 79. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: IVANOF BAY, 1992

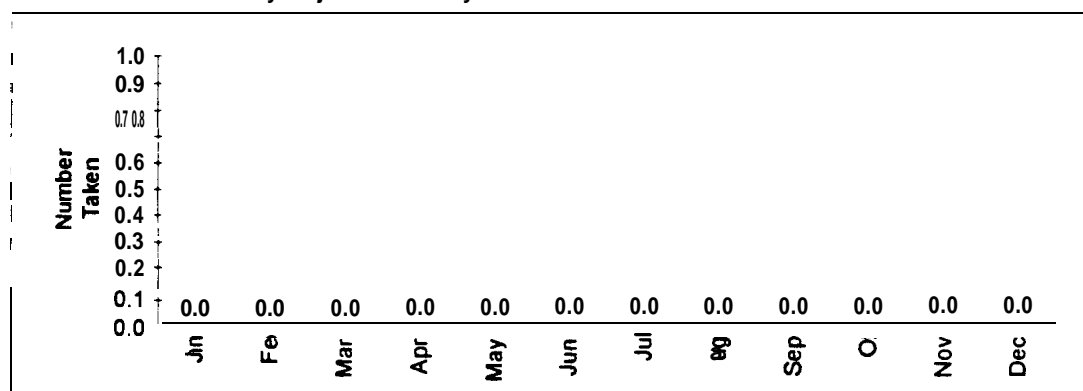
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bay Traditional Village Council, 1993.

**TABLE 80. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: IVANOF BAY, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	8
Surveyed Households	8
Sampling Fraction	100.0%
Sample Household Members	32
Estimated Household Members	32.0

**HARBOR SEAL HARVEST AND USE INFORMATION**

*Percent Of Native Households:  
used 100.0%*

**Hunted 67.5%**  
**Harvested 62.5%**  
**Received 100.0%**  
**Gave Away 62.5%**

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested	10.0
Total Number Struck and Lost	1.0
Total Number Taken	11.0
Number Harvested Per Capita	0.31

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	1	1	0	0	0	0	1	3	1	2	0	to
Struck end Lost	0	0	0	0	0	0	0	0	0	0	1	0	0	t
Total Take	0	1	1	1	0	0	0	0	1	3	2	2	0	11
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	3.0	1.0	2.0	0.0	10.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0
Total Take	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	3.0	2.0	2.0	0.0	11.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	3.0	1.0	2.0		10.0
Struck end Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0		1.0
Total Teke	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	3.0	2.0	2.0		11.0
Total Tske (%)	0.0%	9.1%	9.1%	9.1%	0.0%	0.0%	0.0%	0.0%	9.1%	27.3%	10.2%	18.2%		log%
Cumulative Teke	0.0	1.0	2.0	3.0	3.0	3.0	3.0	3.0	4.0	7.0	9.0	11.0		
Cum. Take (%)	0.0%	9.1%	10.2%	27.3%	27.3%	27.3%	27.3%	27.3%	36.4%	63.6%	81.9%	100.0%		

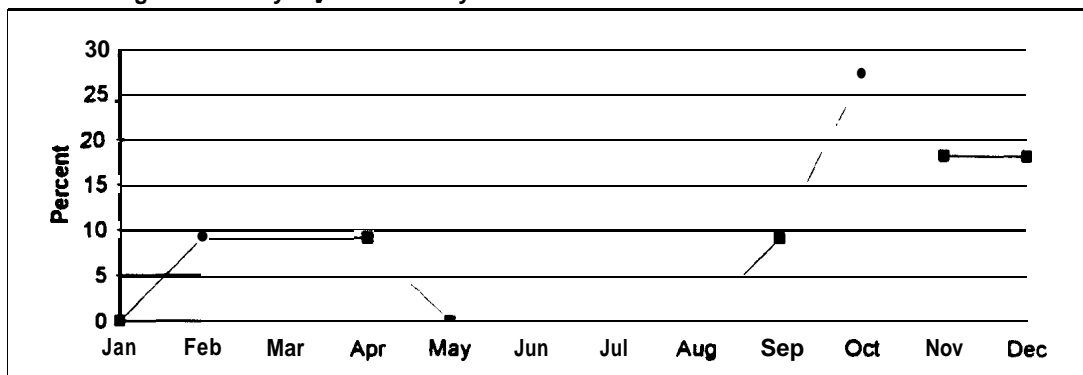
**HARBOR SEAL HARVEST BY AGE AND SEX**

	<b>Reported</b>		<b>Estimated</b>	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expended)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	8	80.0%	8.0	80.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	20.0%	2.0	20.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	10	100.0%	10.0	100.0%

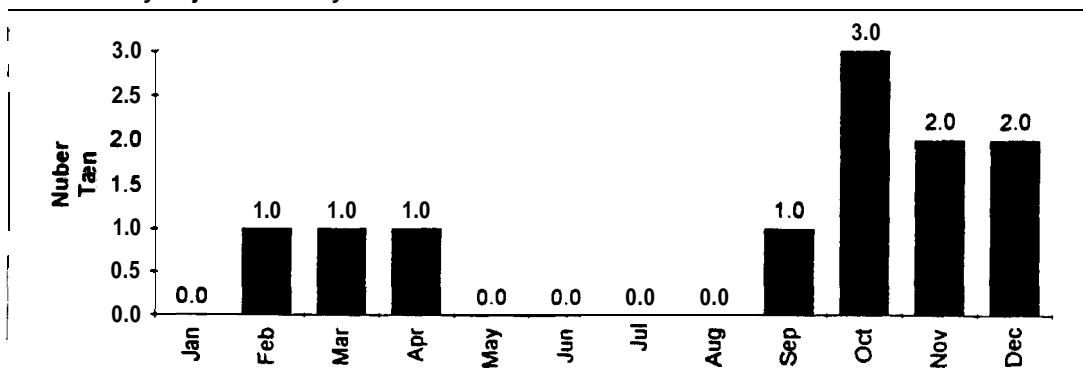
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with existence from the Ivanof Bay Traditional Village Council, 1993.

FIGURE 80. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: IVANOF BAY, 1992

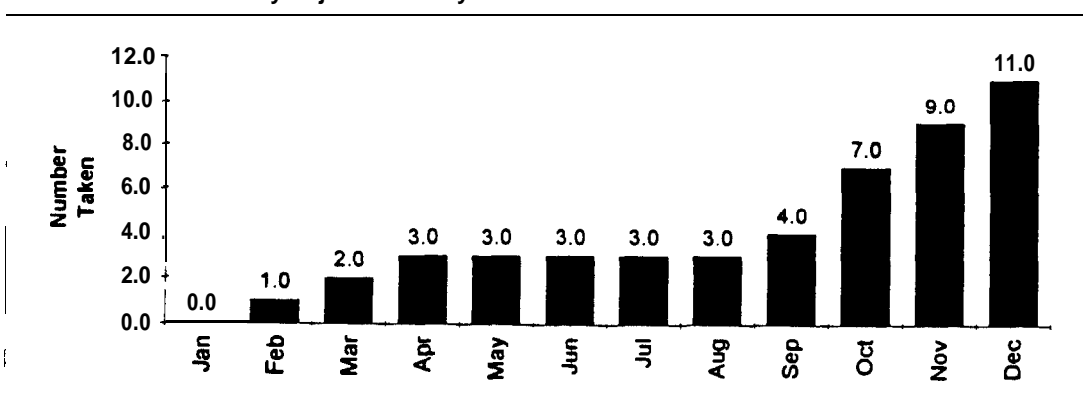
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bay Traditional Village Council, 1993.

**TABLE 81. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KING COVE, 1992**

SAMPLING DESIGN: **TWO STRATA**

	Active	Other	Total
Total Native Households	8	110	118
Surveyed Households	6	55	61
Sampling Fraction	75.0%	50.0%	51.7%
Sample Household Members	22	204	226
Estimated Household Members	29.3	408.0	437.3

**SEA LION HARVEST AND USE INFORMATION**

Percent Of Native Households:

used	3.3%
Hunted	1.6%
Harvested	1.6%
Received	1.0%
Gave Away	1.6%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	1.3
Total Number Struck and Lost	0.0
Total Number Taken	1.3
Number Harvested Per Capita	0.00

**SEA LION HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	1	0	0	0	0	1
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.3
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0		1.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0		1.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%		

**SEA LION HARVEST BY AGE AND SEX**

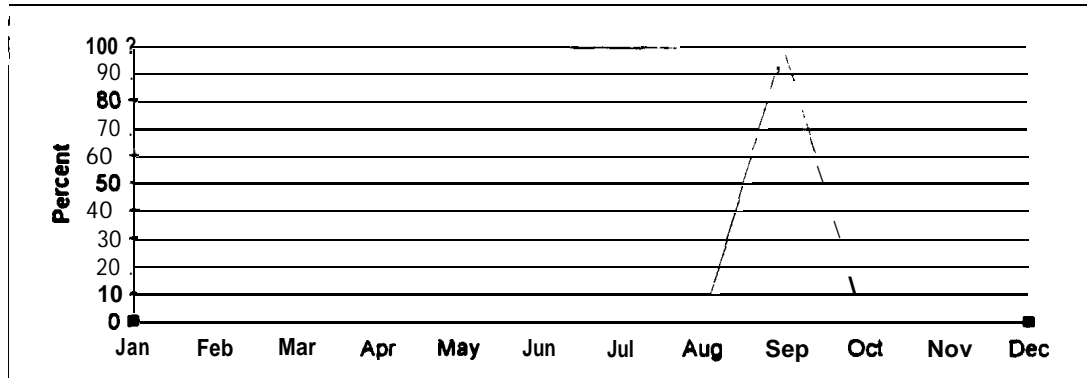
	Reported		Estimated	
	By Sample Percent		By Community Percent	
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	100.0%	1.3	100.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	1	100.0%	1.3	100.0%

SOURCE:

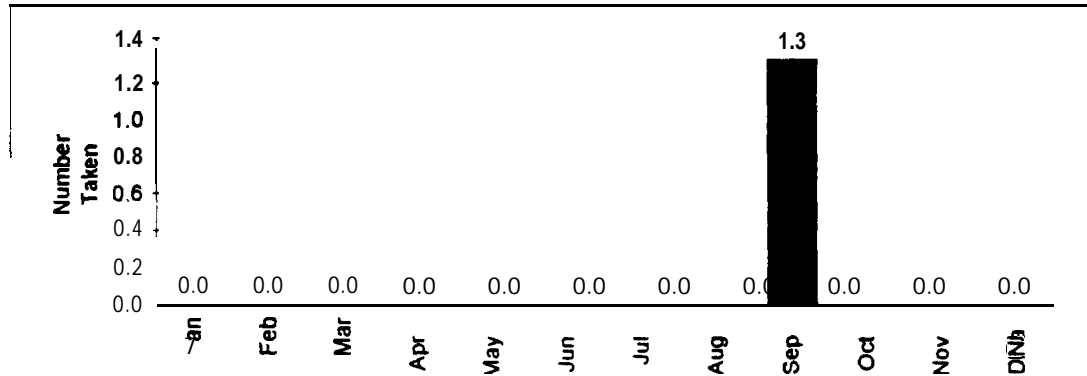
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagur Triba of King Cove, Belofsky Village Council, and City of King Cove, 1993

FIGURE 81. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KING COVE, 1992

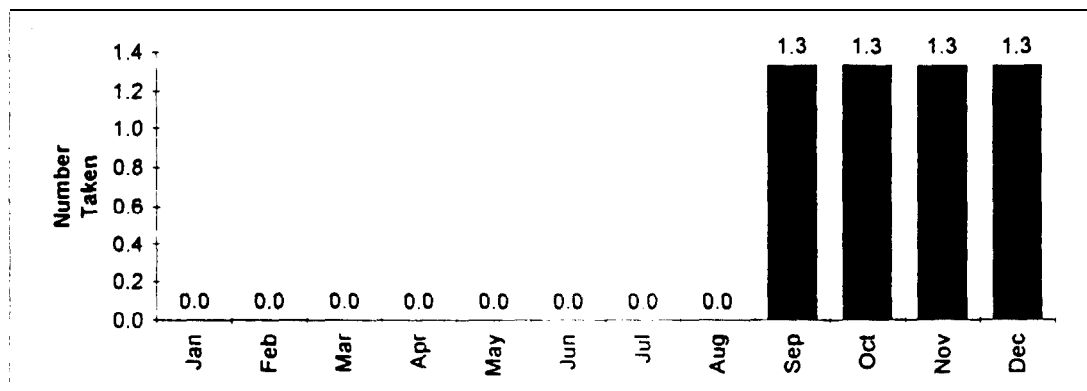
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagux Tribe of King Cove, Belofsky Village Council, and City of King Cove, 1993

**TABLE 82. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KING COVE, 1992**

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	8	110	118
Surveyed Households	6	55	61
Sampling Fraction	75.0%	50.0%	51.7%
Sample Household Members	22	204	226
Estimated Household Members	29.3	400.0	437.3

HARBOR SEAL HARVEST AND USE INFORMATION

**Percent** Of Native Households:

Used 34.4%  
Hunted 18.0%  
Harvested 16.4%  
Received 21.3%  
Gave Away 11.5%

Estimated Community **Harvest and Take** (Expanded):

Total Number Harvested 26.0  
Total Number Struck and Lost 6.7  
Total Number Taken 32.7  
Number Harvested Per Capita 0.06

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	1	0	1	3	0	1	4	3	1	14
Struck and Lost	0	0	0	0	0	0	0	0	1	0	0	2	1	4
Total Take	0	0	0	0	1	0	1	3	1	1	4	5	2	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.0	0.0	2.0	5.3	0.0	2.0	6.0	5.3	1.3	26.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	4.0	1.3	6.7
Total Take	0.0	0.0	0.0	0.0	2.0	0.0	2.0	5.3	1.3	2.0	6.0	9.3	2.7	32.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.1	0.0	2.1	5.6	0.0	2.1	6.4	5.6		26.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	5.0		6.7
Total Take	0.0	0.0	0.0	0.0	2.1	0.0	2.1	5.6	1.7	2.1	6.4	10.6		32.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	6.5%	0.0%	6.5%	17.2%	5.1%	6.5%	25.6%	32.5%		100%
Cumulative Take	0.0	0.0	0.0	0.0	2.1	2.1	4.2	9.0	11.5	13.6	22.0	32.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	6.5%	6.5%	12.9%	30.1%	35.2%	41.7%	67.5%	100.0%		

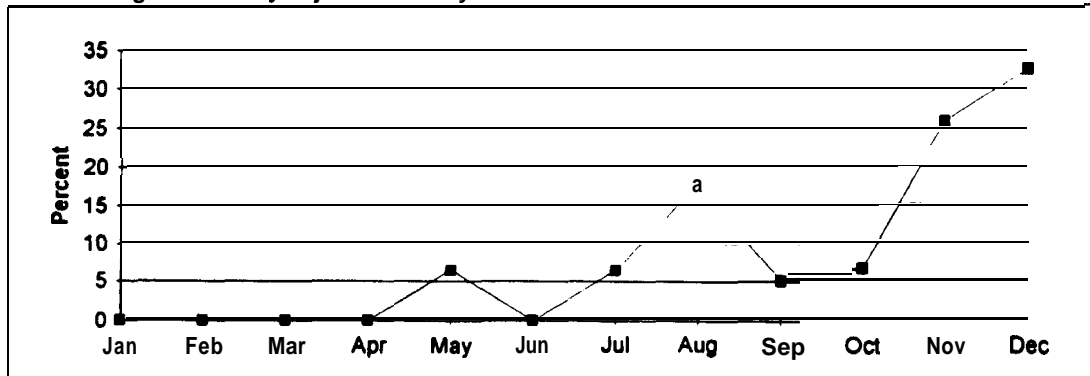
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	10	71.4%	18.7	71.8%
Adult Female	2	14.3%	3.3	12.8%
Adult Unknown Sex	1	7.1%	2.0	7.7%
Juvenile Male	1	7.1%	2.0	7.7%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	14	100.0%	26.0	100.0%

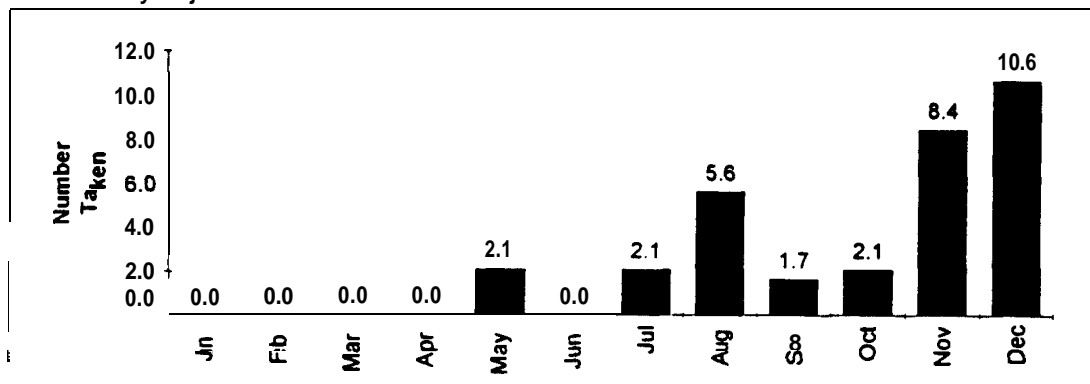
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagux Triik of King Cove, Belofsky Wage Council, and City of King Cove, 1993.

FIGURE 82. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KING COVE, 1992

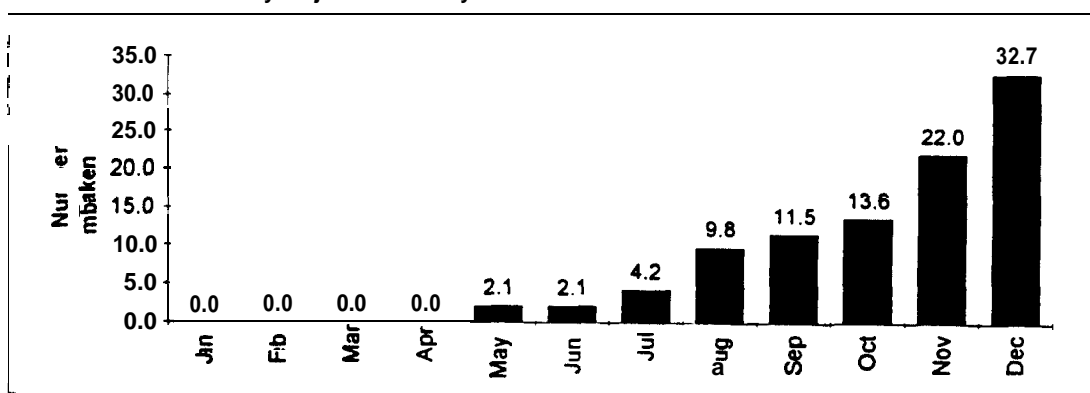
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagux Tribe of King Cove, Belofsky Village Council, and city of King Cove, 1993

TABLE 83. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: NELSON LAGOON, 1992**SAMPLING DESIGN: CENSUS**

Total Native Households	27
Surveyed Households	26
Sampling Fraction	96.3%
Sample Household Members	76
Estimated Household Members	78.9

**SEA LION HARVEST AND USE INFORMATION****Percent Of Native Households:**

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

**SEA LION HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month	Unknown	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)	--	--	--	--	--	--	--	--	--	--	--	--			
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

**SEA LION HARVEST BY AGE AND SEX**

	<b>Reported</b>		<b>Estimated</b>	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expended)	
Adult Male	0	--	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	--
Juvenile Male	0	--	0.0	---
Juvenile Female	0	--	0.0	--
Juvenile Unknown Sex	0	---	0.0	--
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	--
Pup Unknown Sex	0	--	0.0	--
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	--	0.0	--
Unknown Sex and Age	0	---	0.0	--
Total	0	---	0.0	---

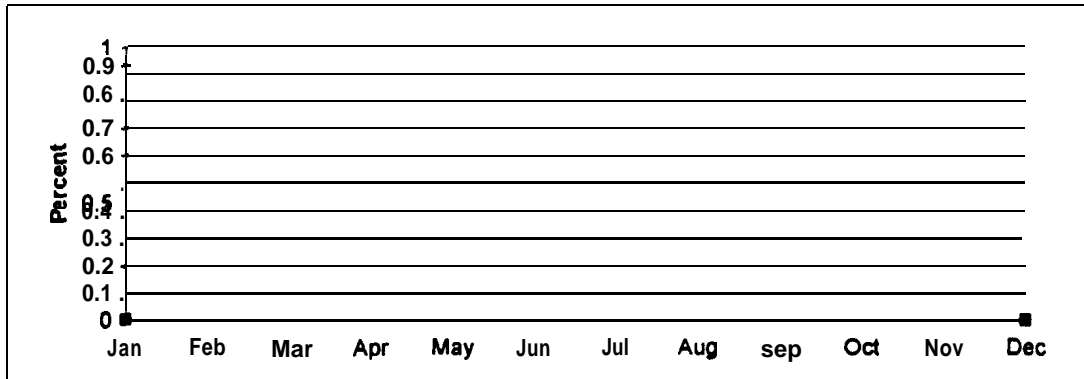
**SOURCE:**

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nelson Lagoon Village Council, 1993.

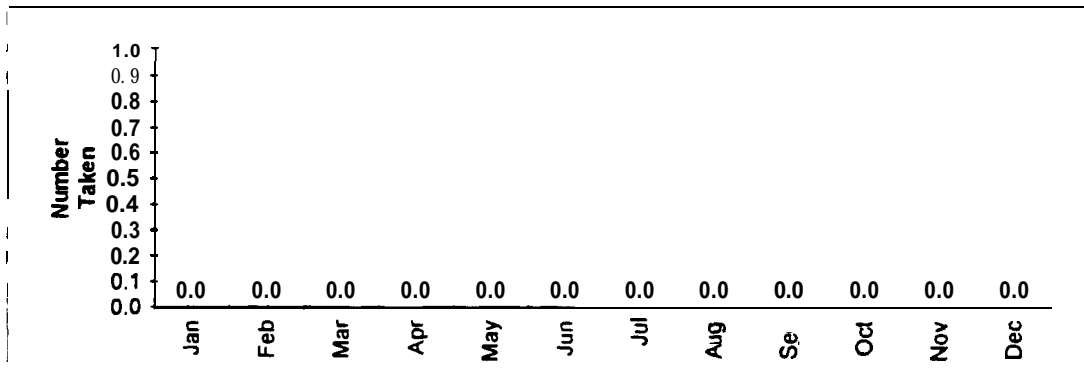


FIGURE 83. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: NELSON LAGOON, 1992

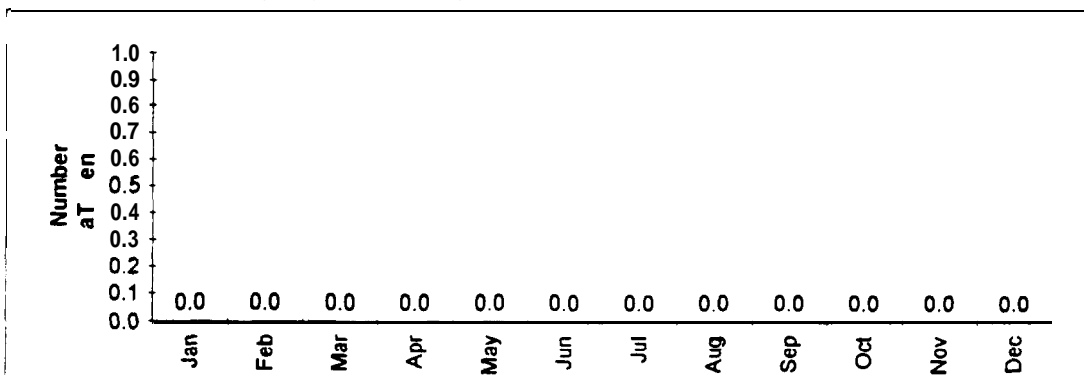
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game. Division 01 Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nelson Lagoon Village Council. 1993

**TABLE 84. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: NELSON LAGOON, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	27
Surveyed Households	26
Sampling Fraction	96.3%
Sample Household Members	76
Estimated Household Members	78.9

**HARBOR SEAL HARVEST AND USE INFORMATION**

Percent Of **Native** Households:  
used 0.0%

Hunted 0.0%  
Harvested 0.0%  
Received 0.0%  
Gave Away 0.0%

Estimated Community **Harvest and Take (Expanded):**

Total Number Harvested 0.0  
Total Number Struck and Lost 0.0  
Total Number Taken 0.0  
Number Harvested Per Capita 0.00

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	N W	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

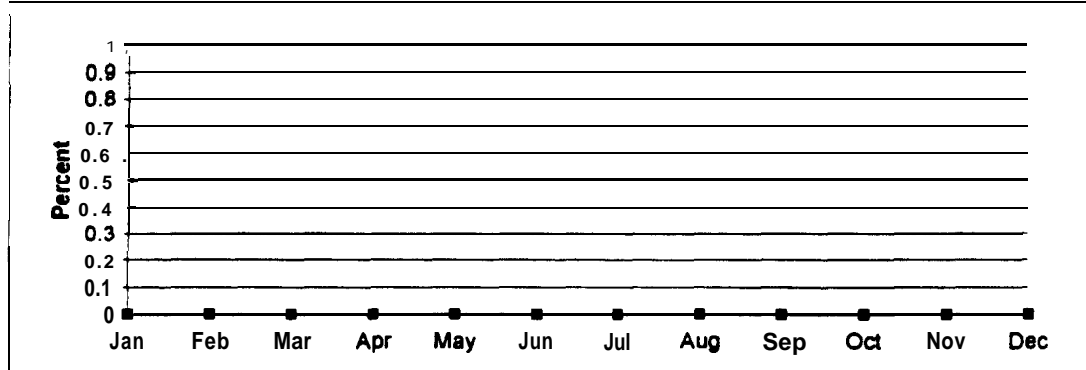
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0		0.0	--
Adult Female	0	--e	0.0	--
Adult Unknown Sex	0	--	0.0	--
Juvenile Male	0	--	0.0	---
Juvenile Female	0	--	0.0	---
Juvenile Unknown Sex	0	--v	0.0	--
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	--	0.0	---
Male Unknown Age	0		0.0	---
Female Unknown Age	0	---	0.0	--
Unknown Sex and Age	0	--	0.0	--
Total	0	---	0.0	---

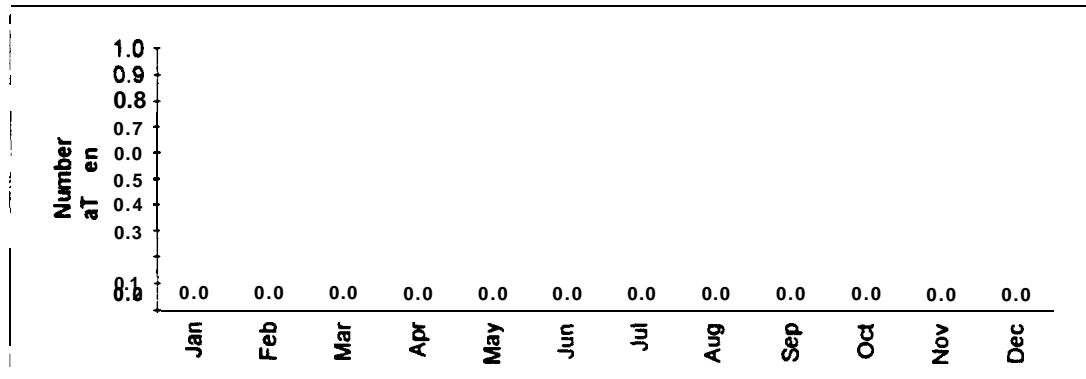
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nelson Lagoon Village Council, 1993.

FIGURE 84. HARBOR SEAL (*Phocavitulina*) TAKE ESTIMATES: NELSON LAGOON, 1992

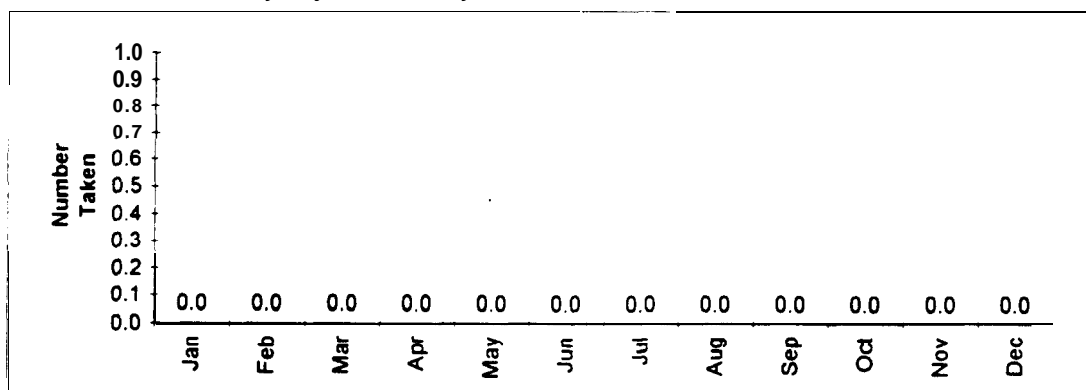
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nelson Lagoon Village Council, 1993.

**TABLE 85. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PERRYVILLE, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	30
Surveyed Households	27
Sampling Fraction	90.0%
Sample Household Members	106
Estimated Household Members	117.8

**SEA LION HARVEST AND USE INFORMATION**

*Percent Of Native Households:*

Used 25.9%  
Hunted 18.5%  
Harvested 3.7%  
Received 25.9%  
Gave Away 14.8%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 1.1  
Total Number Struck and Lost 0.0  
Total Number Taken 1.1  
Number Harvested Per Capita 0.01

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total lake	0	0	0	0	1	0	0	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

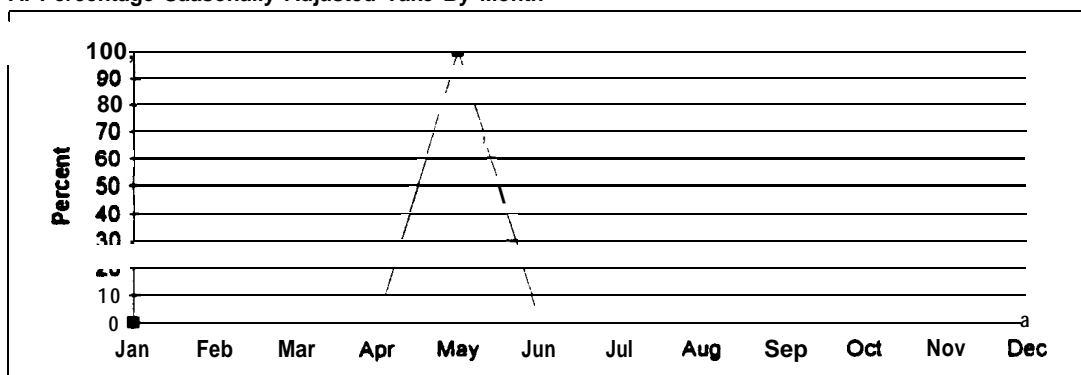
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample Percent	(Unexpanded)	By Community Percent	(Expanded)
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	1	100.0%	1.1	100.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	1	100.0%	1.1	100.0%

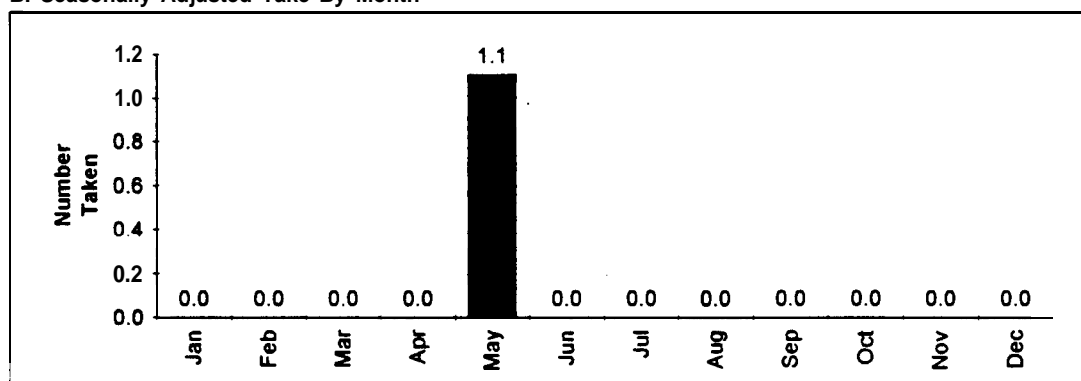
SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assistance from the Perryville Traditional Village Council. 1993.

FIGURE 85. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PERRYVILLE, 1992

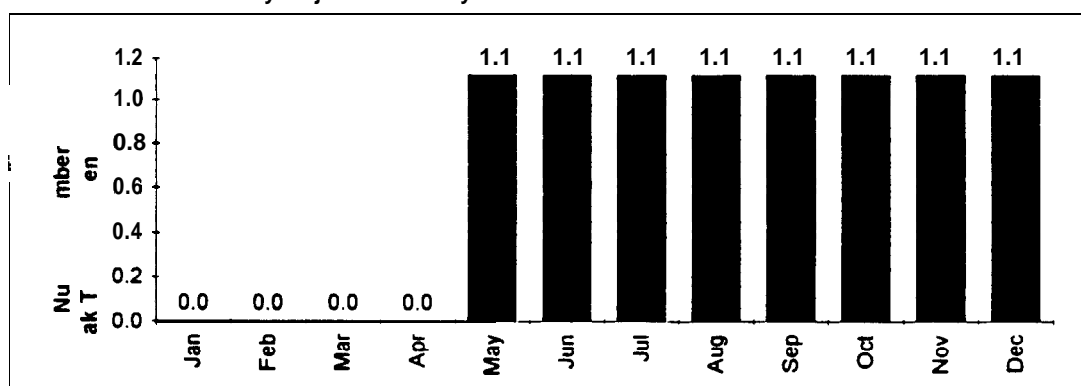
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Perryville Traditional Wage Council, 1993.

TABLE 66. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PERRWILLE, 1962

SAMPLING DESIGN: CENSUS

Total Native Households	30
Surveyed Households	27
Sampling Fraction	90.0%
Sample Household Members	106
Estimated Household Members	117.8

## HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of **Native** Households:

Used 92.6%  
Hunted 59.3%  
Harvested 18.5%  
Received 85.2%  
Gave Away 06.7%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested **8.9**  
Total Number Struck and Lost **2.2**  
Total Number Taken **11.1**  
Number Harvested Per Capita **0.08**

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sop	Oct	Nov	D s c	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	1	1	2	0	0	0	0	1	1	0	0	8
Struck and Lost	0	0	0	1	1	0	0	0	0	0	0	0	0	2
Total Take	0	2	1	2	3	0	0	0	0	1	1	0	0	10
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.2	1.1	1.1	2.2	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.9
Struck and lost	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
Total Take	0.0	2.2	1.1	2.2	3.3	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0	11.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.2	1.1	1.1	2.2	0.0	0.0	0.0	0.0	1.1	1.1	0.0		6.9
Struck and Lost	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.2
Total Take	0.0	2.2	1.1	2.2	3.3	0.0	0.0	0.0	0.0	1.1	1.1	0.0		11.1
Total Take (%)	0.0%	20.0%	10.0%	20.0%	30.0%	0.0%	0.0%	0.0%	0.0%	10.0%	10.0%	0.0%		100%
Cumulative Take	0.0	2.2	3.3	5.6	8.9	8.9	8.9	8.9	8.9	10.0	11.1	11.1		
Cum. Take (%)	0.0%	20.0%	30.0%	50.0%	80.0%	80.0%	60.0%	80.0%	80.0%	90.0%	100.0%	100.0%		

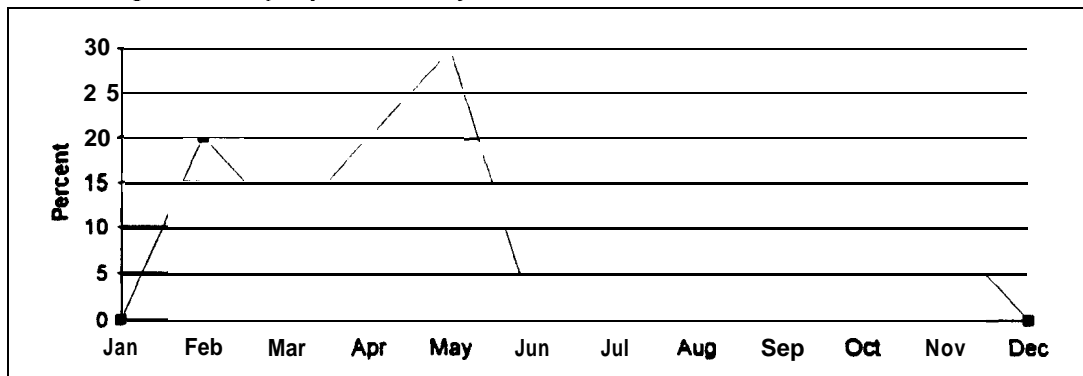
## HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	25.0%	2.2	25.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	3	37.5%	3.3	37.5%
Juvenile Male	1	12.5%	1.1	12.5%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	2	25.0%	2.2	25.0%
Total	8	100.0%	8.9	100.0%

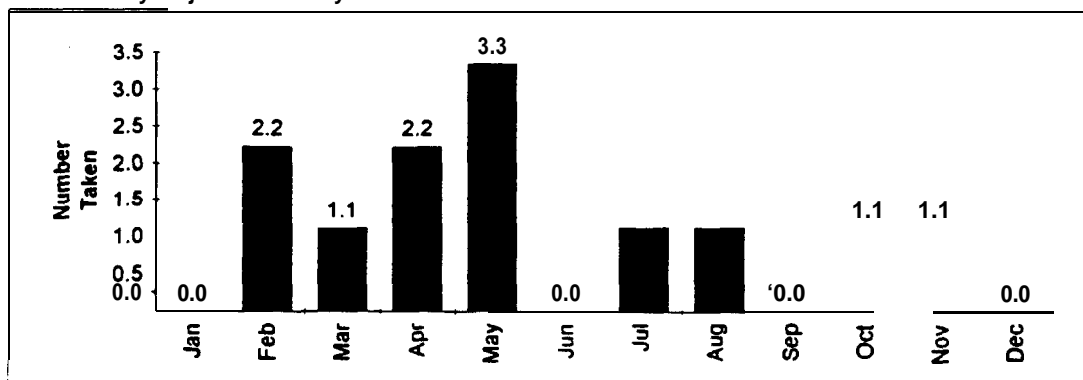
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Perryville Traditional Village Council, 1993.

FIGURE 86. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PERRWILLE, 1992

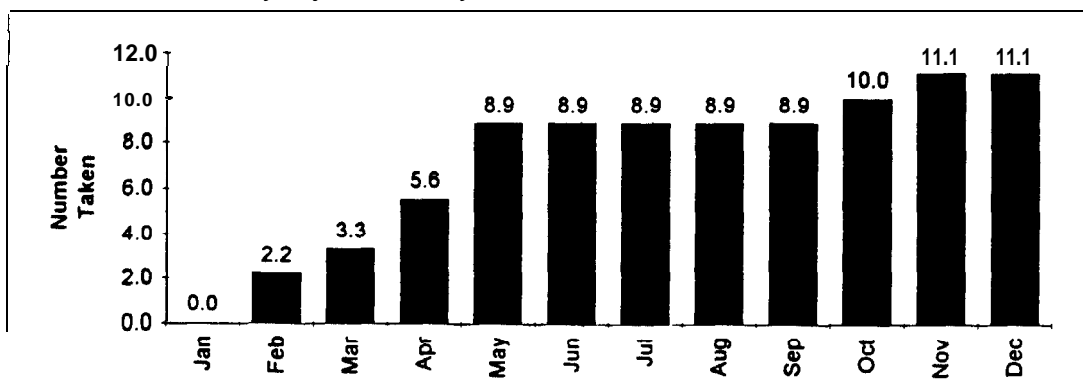
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Perryville Traditional Village Council, 1993.

**TABLE 87. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SAND POINT, 1992**

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	24	133	157
Surveyed Households	14	77	91
Sampling Fmdion	58.3%	57.9%	58.0%
Sample Household Members	55	243	298
Estimated Household Members	94.3	419.7	514.0

SEA LION HARVEST AND USE INFORMATION

**Percent Of Native Households:**

used	1.1%
Hunted	0.0%
Harvested	0.0%
Received	1.1%
Gave Away	0.0%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—	
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	

SEA LION HARVEST BY AGE AND SEX

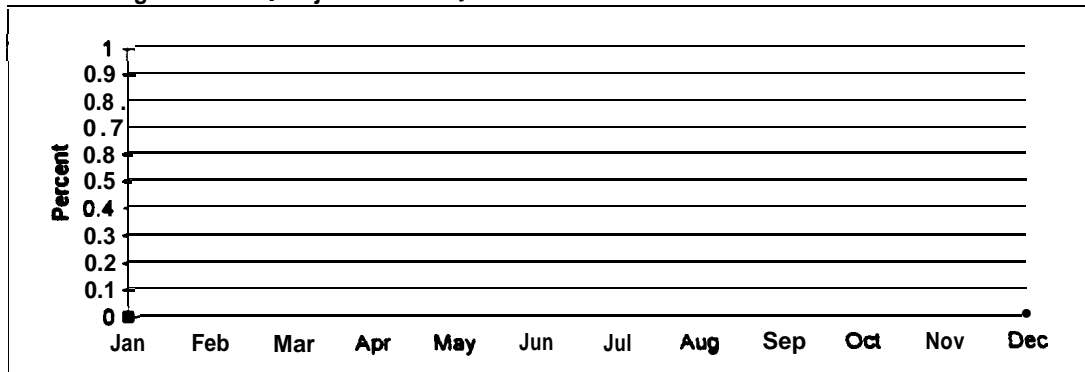
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	--
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	--
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	--	0.0	---
Pup Female	0	--	0.0	---
Pup Unknown Sex	0	---	0.0	--
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	--	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Oagan Tayagungin Tribe of Sand Point, 1993.

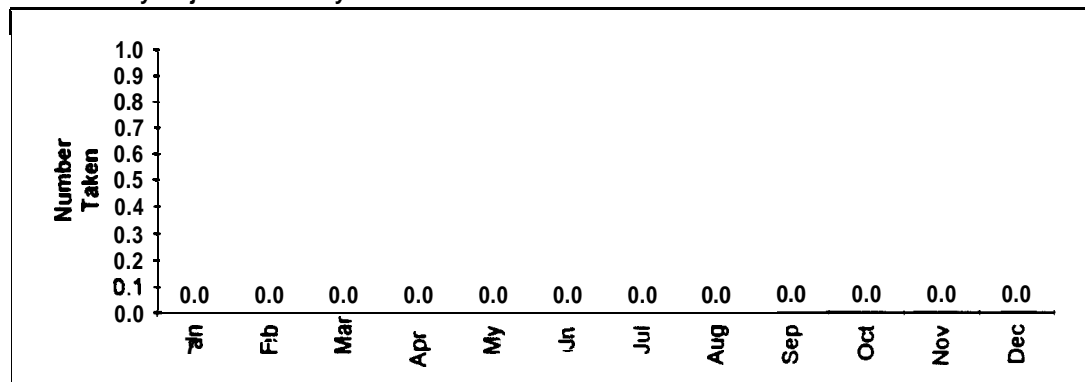


FIGURE 67. SEALION (*Eumetopias jubatus*) TAKE ESTIMATES: SAND POINT, 1992

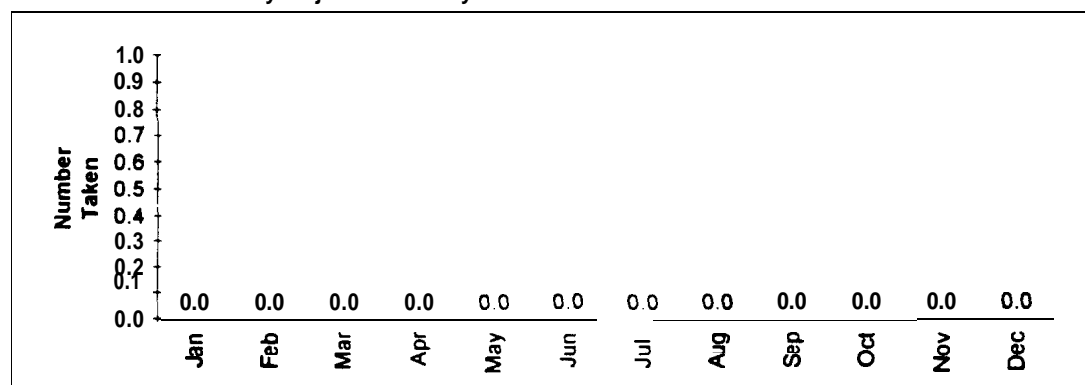
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assistance from the City of Sand Point, Unga Tribal Council. and Qagan Tayagungin Tribe of Sand Point, 1993.

TABLE 88. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SAND POINT, 1992

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	24	133	157
Surveyed Households	14	77	91
Sampling Fraction	58.3%	57.9%	58.0%
Sample Household Members	55	243	298
Estimated Household Members	94.3	419.7	514.0

HARBOR SEAL HARVEST AND USE INFORMATION

**Percent Of Native Households:****Used** 24.2%**Hunted** 14.3%**Harvested** 14.3%**Received** 14.3%**Gave Away** 11.0%**Estimated Community Harvest and Take (Expanded):****Total Number Harvested** 37.9**Total Number Struck and Lost** 0.0**Total Number Taken** 37.8**Number Harvested Per Capita** 0.07

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	0	0	1	1	4	5	4	2	1	1	0	1	22
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	0	0	1	1	4	5	4	2	1	1	0	1	22
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.4	0.0	0.0	1.7	1.7	6.9	6.6	6.9	3.5	1.7	1.7	0.0	1.7	37.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	3.4	0.0	0.0	1.7	1.7	6.9	0.6	6.9	3.5	1.7	1.7	0.0	1.7	37.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.6	0.0	0.0	1.6	1.6	7.2	9.0	7.2	3.6	1.6	1.0	0.0		37.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	3.6	0.0	0.0	1.0	1.0	7.2	9.0	7.2	3.6	1.6	1.0	0.0		37.9
Total Take (%)	9.5%	0.0%	0.0%	4.6%	4.6%	19.1%	23.6%	19.0%	9.5%	4.0%	4.6%	0.0%		100%
Cumulative Take	3.6	3.6	3.6	5.4	7.2	14.4	23.5	30.7	34.3	36.1	37.9	37.9		
Cum. Take (%)	0.5%	9.5%	0.5%	14.2%	19.0%	30.1%	61.9%	80.9%	90.5%	95.2%	100.0%	100.0%		

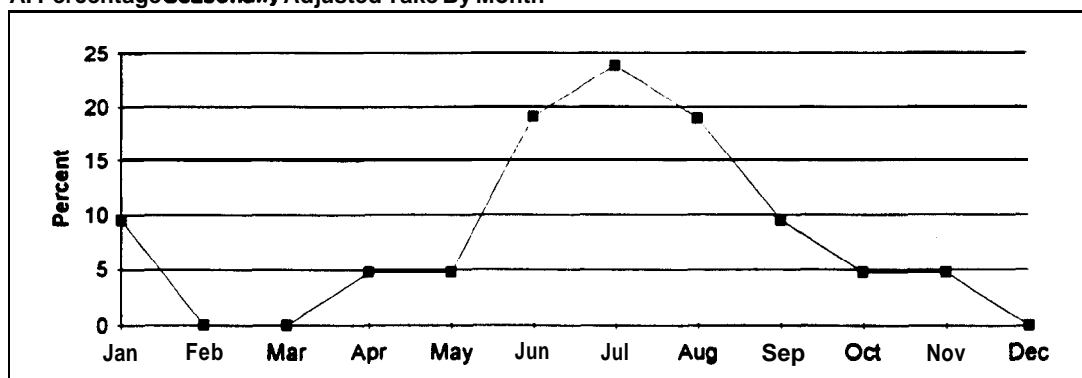
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	4	18.2%	6.9	18.2%
Adult Female	2	9.1%	3.5	9.1%
Adult Unknown Sex	15	68.2%	25.8	68.1%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	4.5%	1.7	4.6%
Total	22	100.0%	37.9	100.0%

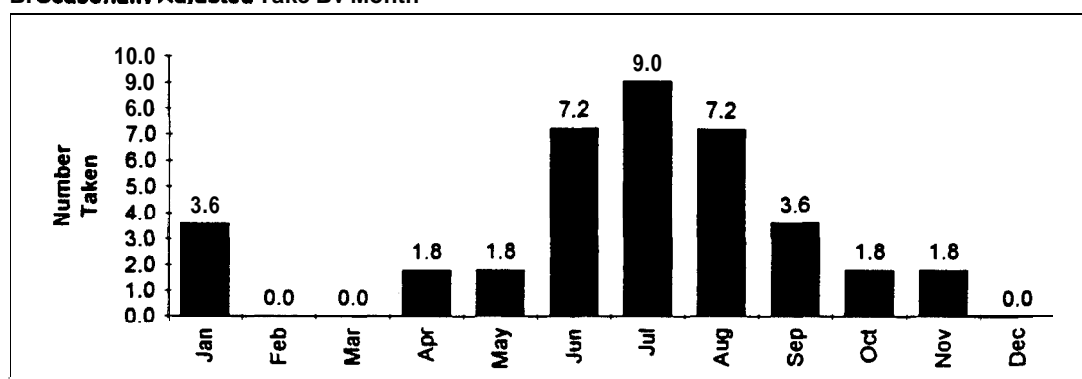
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Oagan Tayagungin Tribe of Sand Point, 1993

FIGURE 88. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SAND POINT, 1992

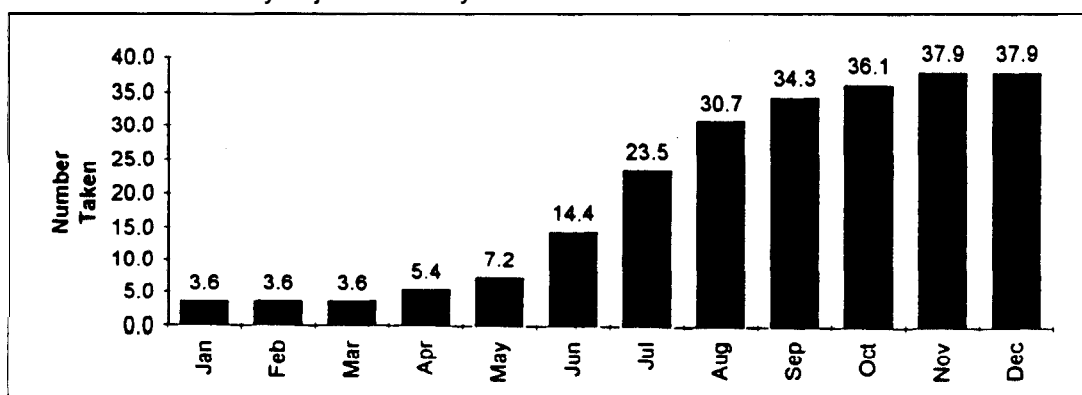
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Gagan Tayagungin Tribe of Sand Point, 1993.



## ALEUTIAN - PRIBILOF ISLANDS

**TABLE 89. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: AKUTAN, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	30
Surveyed Households	28
Sampling Fraction	93.3%
Sample Household Members	77
Estimated Household Members	82.5

*SEA LION HARVEST AND USE INFORMATION*

Percent Of Native Households:  
used 96.4%  
Hunted 25.0%  
Harvested 17.9%  
Received 92.9%  
Gave Away 42.9%

Estimated Community Harvest and Take (Expanded):  
Total Number Harvested 25.7  
Total Number Struck and Lost 4.3  
Total Number Taken 30.0  
Number Harvested Per Capita 0.31

*SEA LION HARVEST BY SEASON*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	1	1	2	1	4	1	1	6	0	0	5	24
Struck and Lost	0	0	0	0	1	1	1	0	1	0	0	0	0	4
Total Take	0	2	1	1	3	2	5	1	2	6	0	0	5	26
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.1	1.1	1.1	2.1	1.1	4.3	1.1	1.1	6.4	0.0	0.0	5.4	25.7
Struck and Lost	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0	1.1	0.0	0.0	0.0	0.0	4.3
Total Take	0.0	2.1	1.1	1.1	3.2	2.1	5.4	1.1	2.1	6.4	0.0	0.0	5.4	30.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.7	1.4	1.4	2.7	1.4	5.4	1.4	1.4	8.1	0.0	0.0		25.7
Struck and Lost	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0	1.1	0.0	0.0	0.0		4.3
Total Take	0.0	2.7	1.4	1.4	3.6	2.4	6.5	1.4	2.4	8.1	0.0	0.0		30.0
Total Take (%)	0.0%	9.0%	4.5%	4.5%	12.6%	8.1%	21.6%	4.5%	6.1%	27.1%	0.0%	0.0%		100%
Cumulative Take	0.0	2.7	4.1	5.4	9.2	11.6	16.1	19.5	21.9	30.0	30.0	30.0		
Cum. Take (%)	0.0%	9.0%	13.5%	16.0%	30.6%	36.7%	60.3%	64.6%	72.9%	100.0%	100.0%	100.0%		

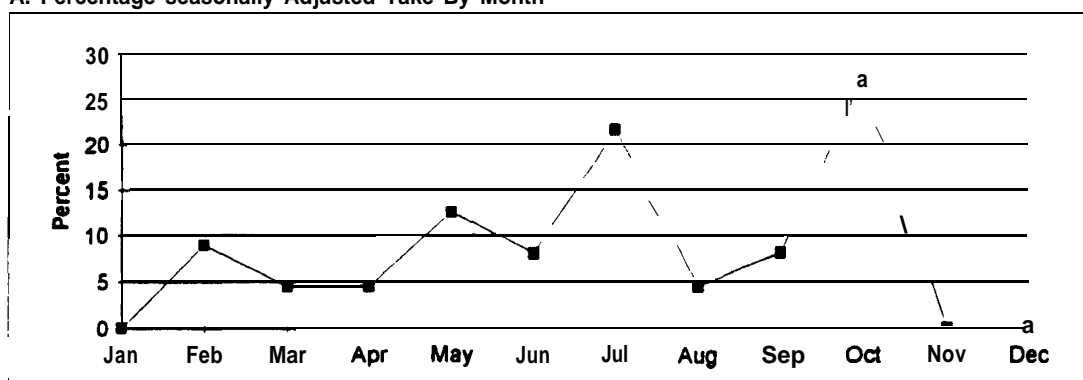
*SEA LION HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	8.3%	2.1	8.3%
Adult Female	2	8.3%	2.1	8.3%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	18	66.7%	17.1	66.7%
Juvenile Female	4	16.7%	4.3	16.7%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	24	100.0%	25.7	100.0%

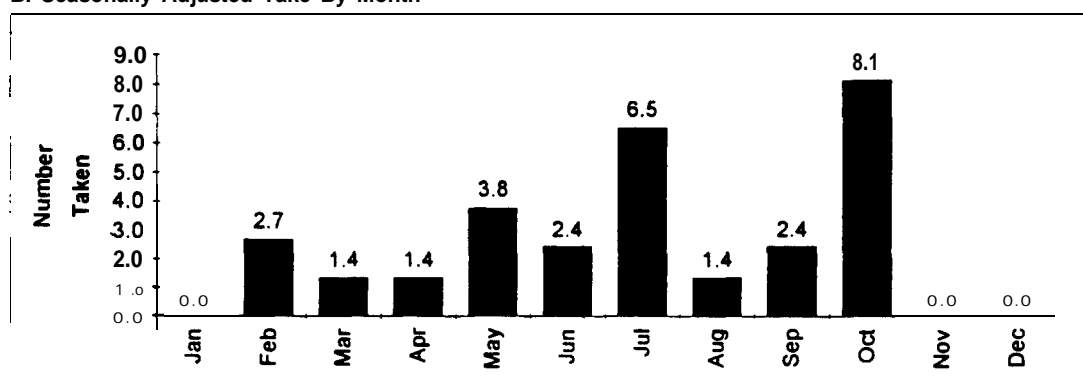
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akutan Corporation, 1993

FIGURE 89. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: AKUTAN, 1992

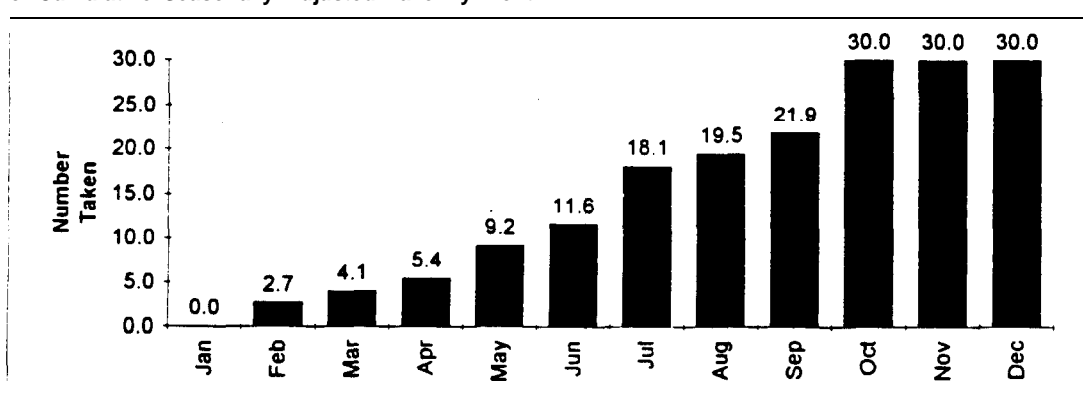
A. Percentage seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



c. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akutan Corporation, 1993.

TABLE SO. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: AKUTAN, 1992

## SAMPLING DESIGN: CENSUS

Total Native Households	30
Surveyed Households	28
Sampling Fraction	93.3%
Sample Household Members	77
Estimated Household Members	82.5

## HARBOR SEAL HARVEST AND USE INFORMATION

**Percent Of Native Households:**

Used 78.6%  
 Hunted 28.0%  
 Harvested 14.3%  
 Received 75.0%  
 Gave Away 28.6%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested 12.9  
 Total Number Struck and Lost 4.3  
 Total Number Taken 17.1  
 Number Harvested Per Capita 0.16

## HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	1	3	2	1	1	0	2	2	0	12
Struck and Lost	0	0	0	0	1	1	1	1	0	0	0	0	0	4
Total Take	0	0	0	0	2	4	3	2	1	0	2	2	0	16
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.1	3.2	2.1	1.1	1.1	0.0	2.1	2.1	0.0	12.9
Struck and Lost	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	4.3
Total Take	0.0	0.0	0.0	0.0	2.1	4.3	3.2	2.1	1.1	0.0	2.1	2.1	0.0	17.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.1	3.2	2.1	1.1	1.1	0.0	2.1	2.1		12.9
Struck and Lost	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0		4.3
Total Take	0.0	0.0	0.0	0.0	2.1	4.3	3.2	2.1	1.1	0.0	2.1	2.1		17.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	12.5%	25.0%	16.6%	12.5%	6.2%	0.0%	12.5%	12.5%		100%
Cumulative Take	0.0	0.0	0.0	0.0	2.1	6.4	9.6	11.8	12.9	12.9	15.0	17.1		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	12.5%	37.5%	56.2%	68.7%	75.0%	75.0%	87.5%	100.0%		

## HARBOR SEAL HARVEST BY AGE AND SEX

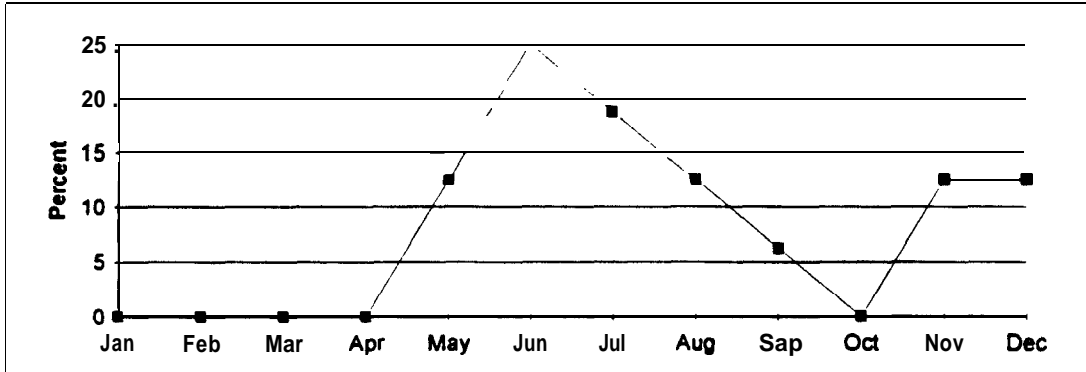
	Reported By Sample Percent (Unexpanded)		Estimated By Community percent (Expanded)	
Adult Male	1	8.3%	1.1	8.3%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	6.3%	1.1	8.3%
Juvenile Male	5	41.7%	5.4	41.7%
Juvenile Female	2	16.7%	2.1	16.7%
Juvenile Unknown Sex	3	25.0%	3.2	25.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	12	100.0%	12.9	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitoring System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akutan Corporation, 1993.

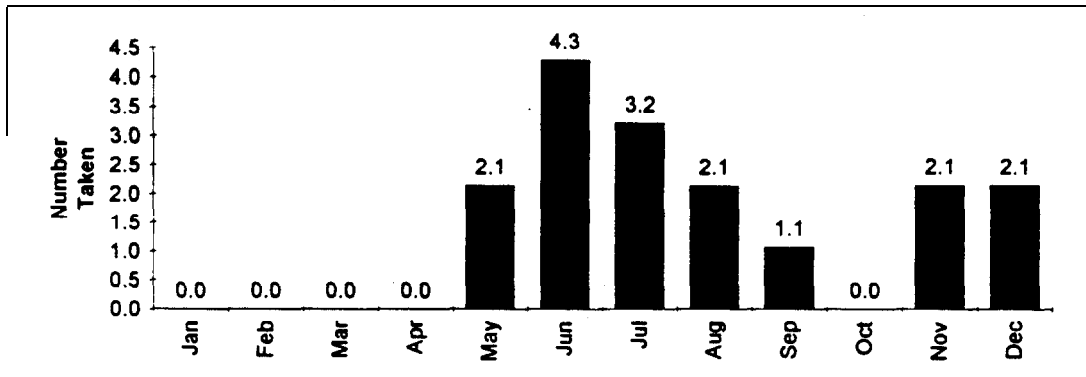


FIGURE S0. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: AKUTAN, 1992

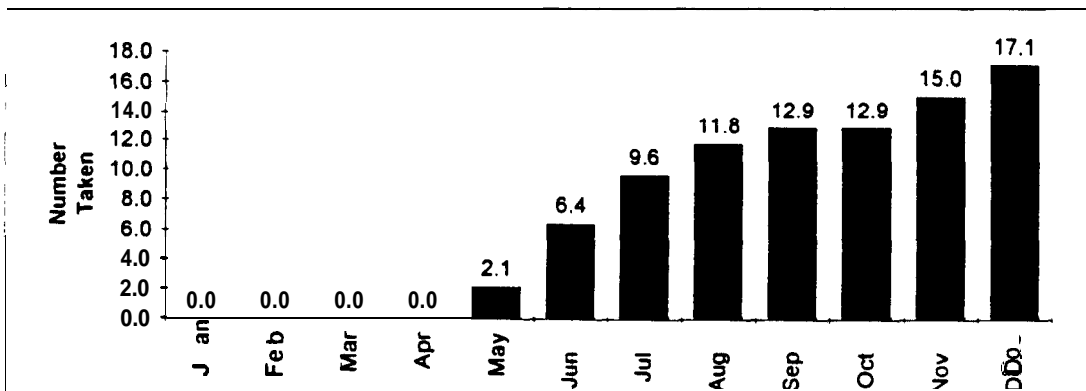
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akutan Corporation, 1993.

TABLE 91. sEALION (Eumetopias jubatus) HARVEST AND TAKE ESTIMATES: ATKA, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	22
Surveyed Households	20
Sampling Fraction	90.9%
Sample Household Members	62
Estimated Household Members	68.2

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:

Used 95.0%  
Hunted 35.0%  
Harvested 25.0%  
Received 90.0%  
Gave Away 45.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 28.6  
Total Number Struck and Lost 9.9  
Total Number Taken 38.5  
Number Harvested Per Capita 0.42

SEA LION HARVEST BY SEASON												Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	1	1	0	1	3	1	0	2	16	26
Struck and Lost	0	0	0	0	0	0	0	0	1	0	0	2	6	9
Total Take	0	0	0	1	1	1	0	1	4	1	0	4	22	35
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.1	1.1	1.1	0.0	1.1	3.3	1.1	0.0	2.2	17.6	28.6
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	2.2	6.6	9.9
Total Take	0.0	0.0	0.0	1.1	1.1	1.1	0.0	1.1	4.4	1.1	0.0	4.4	24.2	36.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.9	2.9	2.9	0.0	2.9	0.6	2.9	0.0	5.7		28.6
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	6.6		9.9
Total Take	0.0	0.0	0.0	2.9	2.9	2.9	0.0	2.9	11.9	2.9	0.0	12.3		36.5
Total Take (%)	0.0%	0.0%	0.0%	7.4%	7.4%	7.4%	0.0%	7.4%	30.9%	7.4%	0.0%	32.0%		100%
Cumulative Take	0.0	0.0	0.0	2.9	5.7	8.6	8.6	11.4	23.3	26.2	26.2	38.5		
Cum. Take(%)	0.0%	0.0%	0.0%	1.4%	14.9%	22.3%	22.3%	29.7%	60.6%	68.0%	66.0%	100.0%		

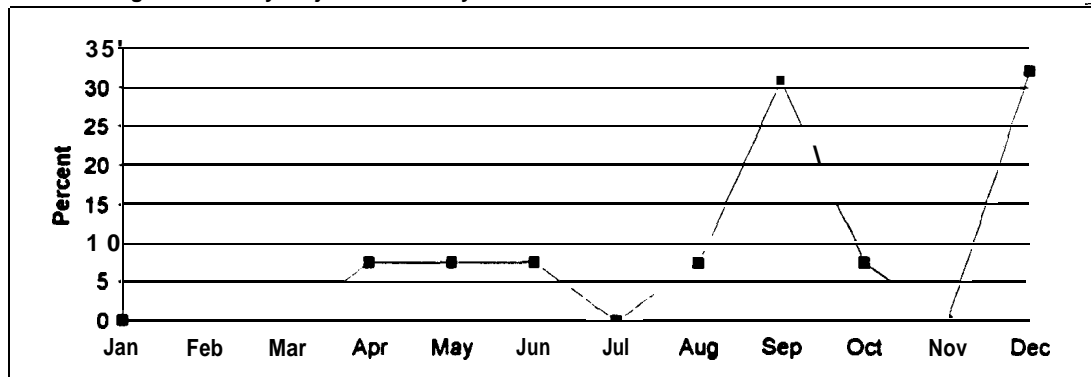
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	8	30.8%	8.8	30.8%
Adult Female	9	34.6%	9.9	34.6%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	7.7%	2.2	7.7%
Juvenile Female	4	15.4%	4.4	15.4%
Juvenile Unknown Sex	1	3.8%	1.1	3.8%
Pup Male	1	3.8%	1.1	3.8%
Pup Female	1	3.8%	1.1	3.8%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	26	100.0%	28.6	100.0%

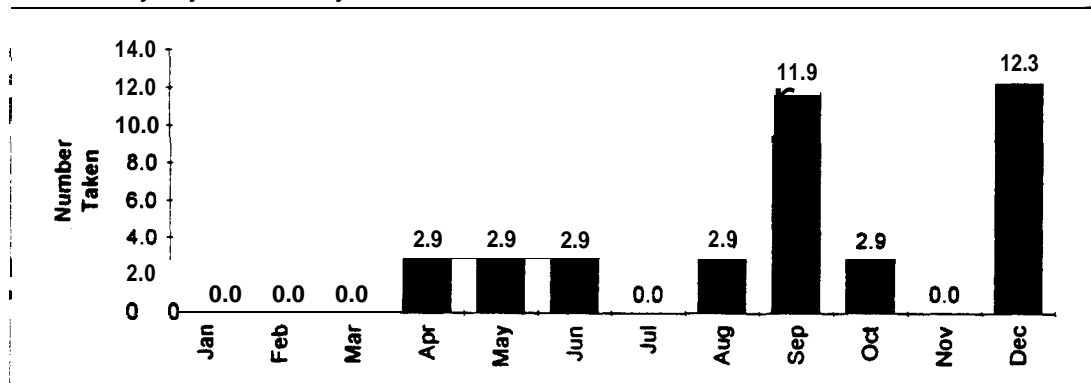
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1993.

FIGURE 91. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: ATKA, 1992

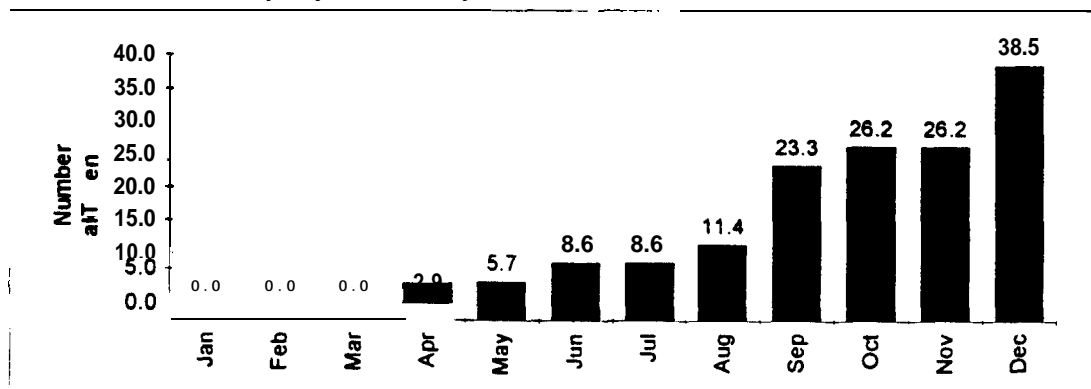
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka. 1993.

**TABLE 92. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: ATKA, 1992**

SAMPLING DESIGN: CENSUS

Total Native Households	22
Surveyed Households	20
Sampling Fraction	90.9%
Sample Household Members	62
Estimated Household Members	66.2

HARBOR SEAL HARVEST AND USE INFORMATION

<b>Percent</b> Of <b>Native</b> Households:	<b>Estimated Community Harvest and Take (Expanded):</b>
used 00.0%	Total Number Harvested 28.6
Hunted 35.0%	Total Number Struck and Lost 9.9
Harvested 25.0%	Total Number Taken 38.5
Received 80.0%	Number Harvested Per Capita 0.42
Gave Away 35.0%	

HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	1	0	1	1	1	0	1	0	2	0	17	26
Struck and Lost	0	0	0	0	0	0	0	0	0	3	3	0	3	9
Total Take	1	1	1	0	1	1	1	0	1	3	5	0	20	35
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	1.1	1.1	0.0	1.1	1.1	1.1	0.0	1.1	0.0	2.2	0.0	18.7	28.6
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	0.0	3.3	9.9
Total Take	1.1	1.1	1.1	0.0	1.1	1.1	1.1	0.0	1.1	3.3	5.5	0.0	22.0	38.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.2	3.2	3.2	0.0	3.2	3.2	3.2	0.0	3.2	0.0	6.4	0.0		28.6
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0	0.0		9.9
Total Take	3.2	3.2	3.2	0.0	3.2	3.2	3.2	0.0	3.2	5.0	11.3	0.0		38.5
Total Take (%)	8.3%	8.3%	8.3%	0.0%	8.3%	8.3%	8.3%	0.0%	8.3%	12.9%	29.4%	0.0%		100%
Cumulative Take	3.2	6.4	9.5	9.5	12.7	15.9	19.1	19.1	22.2	27.2	38.5	38.5		
Cum. Take (%)	0.3%	16.5%	24.0%	24.8%	33.0%	41.3%	49.5%	49.5%	57.8%	70.6%	100.0%	100.0%		

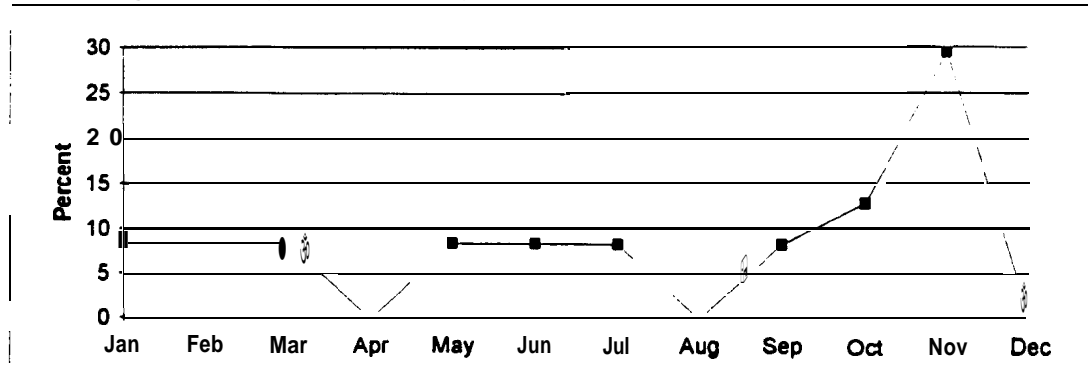
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	4	15.4%	4.4	15.4%
Adult Female	4	15.4%	4.4	15.4%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	6	23.1%	6.6	23.1%
Juvenile Female	8	30.8%	8.8	30.8%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	2	7.7%	2.2	7.7%
Pup Female	2	7.7%	2.2	7.7%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	26	100.0%	26.6	100.0%

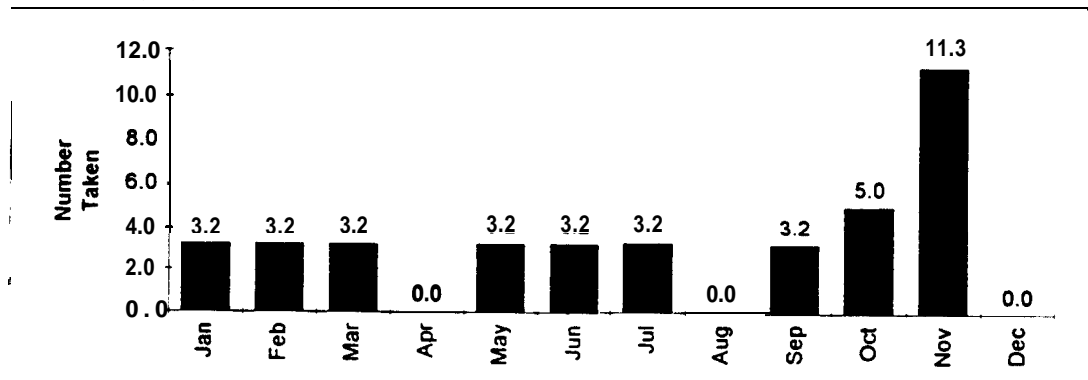
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1993.

FIGURE 92. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: ATKA, 1992

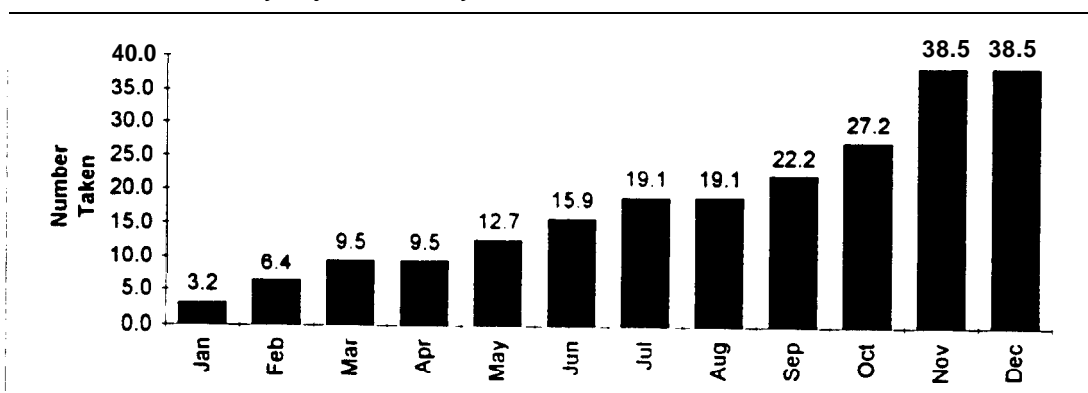
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1993

**TABLE 93. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: NIKOLSKI, 1992**

**SAMPLING DESIGN: CENSUS**

Total Native Households	14
Surveyed Households	12
Sampling Fraction	65.7%
Sample Household Members	21
Estimated Household Members	24.5

**SEA LION HARVEST AND USE INFORMATION**

Percent **Of Native** Households:  
 used 66.7%  
 Hunted 41.7%  
 Harvested 33.3%  
 Received 50.0%  
 Gave Away 50.0%

Estimated Community Harvest and Take (Expanded):  
 Total Number Harvested 8.2  
 Total Number Strunk and Lost 0.0  
 Total Number Taken 8.2  
 Number Harvested Per Capita 0.33

SEA LION HARVEST BY SEASON												Unknown		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	2	1	0	0	0	0	2	0	0	2	7
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	2	1	0	0	0	0	2	0	0	2	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.3	1.2	0.0	0.0	0.0	0.0	2.3	0.0	0.0	2.3	a.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	2.3	1.2	0.0	0.0	0.0	0.0	2.3	0.0	0.0	2.3	a.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	3.3	1.6	0.0	0.0	0.0	0.0	3.3	0.0	0.0		a.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	3.3	1.6	0.0	0.0	0.0	0.0	3.3	0.0	0.0		a.2
Total Take (%)	0.0%	0.0%	0.0%	40.0%	200%	0.0%	00%	0.0%	0.0%	40.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	3.3	4.9	4.9	4.9	4.9	4.9	a.2	a.2	a.2		
Cum. Take (%)	0.0%	0.0%	0.0%	40.0%	60.0%	60.0%	600%	60.0%	60.0%	100.0%	100.0%	100.0%		

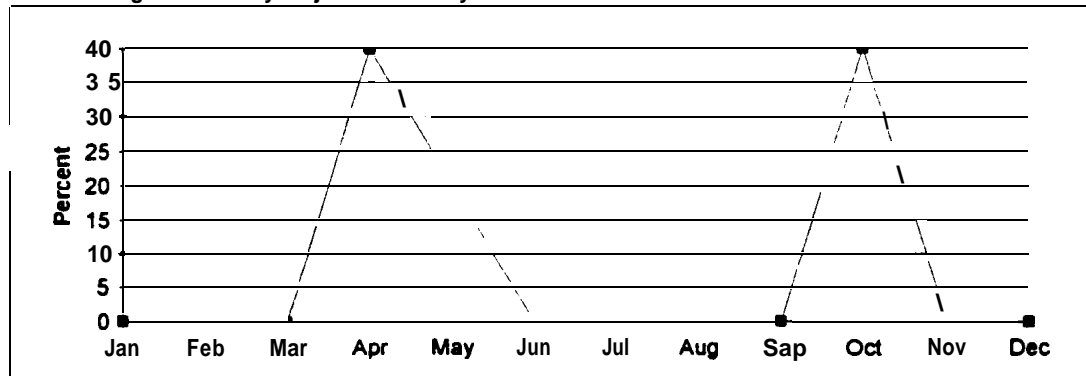
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	3	42.9%	3.5	42.9%
Adult Female	4	57.1%	4.7	57.1%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	7	100.0%	6.2	100.0%

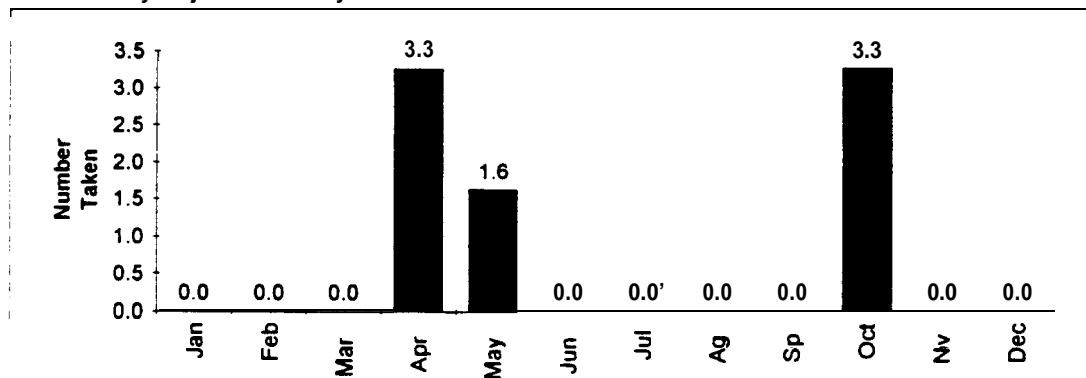
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation, 1993

FIGURE 93. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: NIKOLSKI, 1992

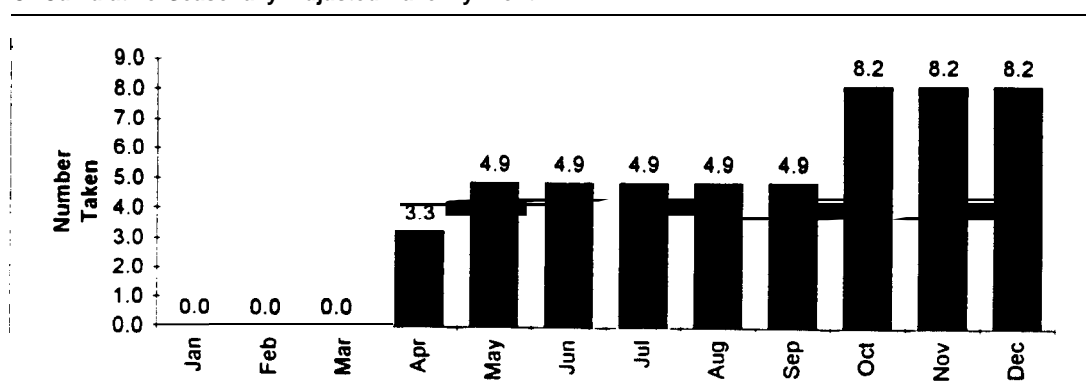
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation. 1993.

**TABLE 94. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: NIKOLSKI. 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	14
Surveyed Households	12
Sampling Fraction	85.7%
Sample Household Members	21
Estimated Household Members	24.5

**HARBOR SEAL HARVEST AND USE INFORMATION**

<b>Percent Of</b> Native Households:	<b>Estimated Community Harvest and Take (Expanded):</b>
used 81.7%	Total Number Harvested 5.8
Hunted 33.3%	Total Number Struck and Lost 3.5
Harvested 16.7%	Total Number Taken 9.3
Received 83.3%	Number Harvested Per Capita 0.24
Gave Away 58.3%	

**HARBOR SEAL HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	2	1	3
Total Take	0	0	0	0	0	0	0	0	0	0	0	2	6	8
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.2	3.5
total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	7.0	9.3
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		5.6
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5		3.5
Total Take	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	4.0		9.3
Total Take (%)	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	42.7%		100%
Cumulative Take	0.5	1.0	1.5	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.3	9.3		
Cum. Take (%)	5.2%	10.4%	15.6%	20.8%	26.0%	31.2%	36.5%	41.7%	46.9%	52.1%	57.3%	100.0%		

**HARBOR SEAL HARVEST BY AGE AND SEX**

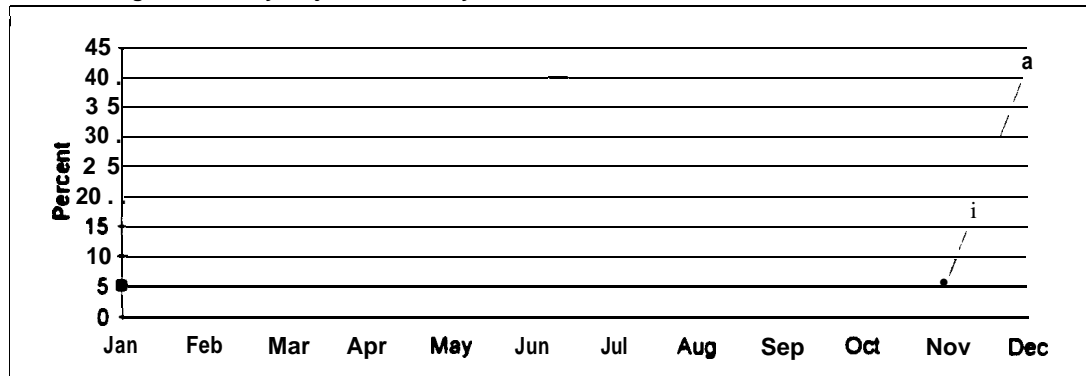
	<b>Reported</b>		<b>Estimated</b>	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	2	40.0%	2.3	40.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	3	60.0%	3.5	60.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	5	100.0%	5.8	100.0%

**SOURCE:** Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assistance from the Nikolski IRA Council and Chaluka Corporation, 1993.

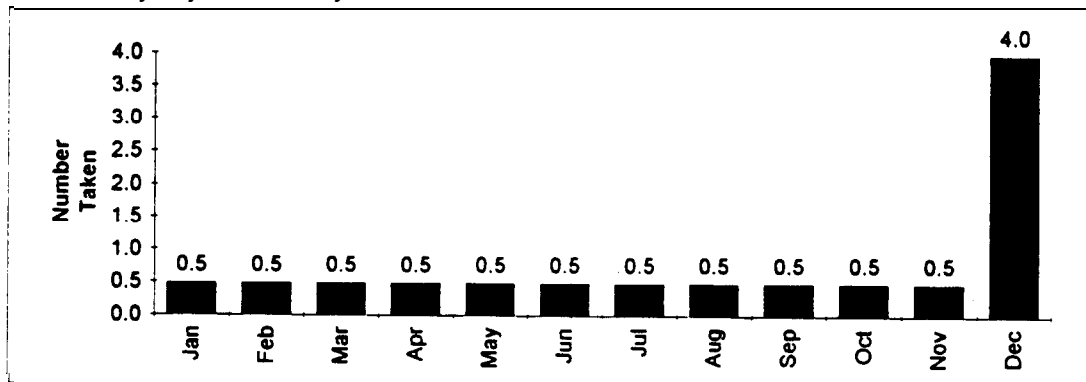


FIGURE 94. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: NIKOLSKI, 1992

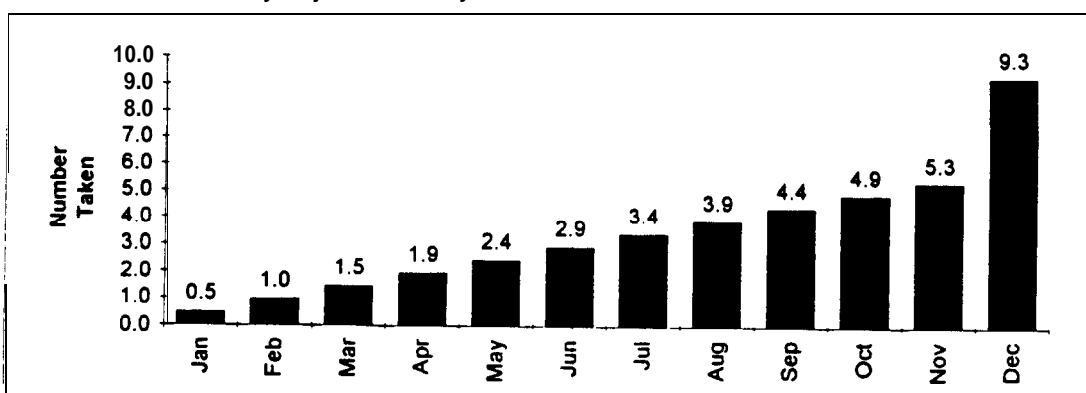
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation, 1993.

**TABLE 95. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SAINT GEORGE, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	47
Surveyed Households	41
Sampling Fraction	87.2%
Sample Household Members	149
Estimated Household Members	170.8

*SEA LION HARVEST AND USE INFORMATION*

*Percent Of Native Households:*

Used 73.2%  
Hunted 29.3%  
Harvested 17.1%  
Received 63.4%  
Gave Away 19.5%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 14.9  
Total Number Strunk and Lost 55.0  
Total Number Taken 69.9  
Number Harvested Per Capita 0.09

SEA LION HARVEST <i>BY SEASON</i>													Unknown	
	Jan	Fob	Mu	Apr	May	Jun	Jut	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	4	1	3	2	0	0	0	0	0	2	0	t	0	13
Struck end Lost	3	6	6	6	0	0	0	0	0	0	1	1	25	46
Total Take	7	7	9	6	0	0	0	0	0	2	1	2	25	61
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.6	1.1	3.4	2.3	0.0	0.0	0.0	0.0	0.0	2.3	0.0	1.1	0.0	14.9
Struck and Lost	3.4	6.9	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	26.7	55.0
Total Take	6.0	0.0	10.3	9.2	0.0	0.0	0.0	0.0	0.0	2.3	1.1	2.3	26.7	699
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.6	1.1	3.4	2.3	0.0	0.0	0.0	0.0	0.0	2.3	0.0	1.1		14 9
struck and Lost	7.2	14.4	14.4	14.4	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4		55.0
Total Take	11.6	16.5	17.6	16.6	0.0	0.0	0.0	0.0	0.0	2.3	2.4	3.5		69.9
Tow Take (%)	16.6 X	22.2%	25.4%	23.6%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%	3.4%	5.1%		100%
Cumulative Trke	11.6	27.3	45.1	61.7	61.7	61.7	61.7	61.7	61.7	64.0	66.4	69.9		
Cum. Take (%)	16.0%	39.0%	64.4%	0 0 . 2 %	88.2%	66.2%	66.2%	6 6 . 2 %	88.2%	91.5%	94.9%	100.0%		

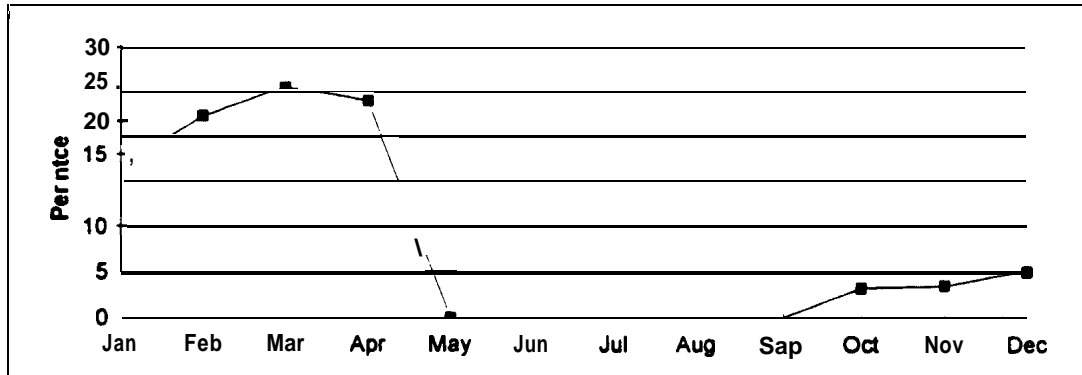
*SEA LION HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	2	15.4%	2.3	15.4%
Juvenile Male	4	30.8%	4.6	30.8%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	15.4%	2.3	15.4%
Pup Male	2	15.4%	2.3	15.4%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	3	23.1%	3.4	23.1%
Total	13	100.0%	14.6	100.0%

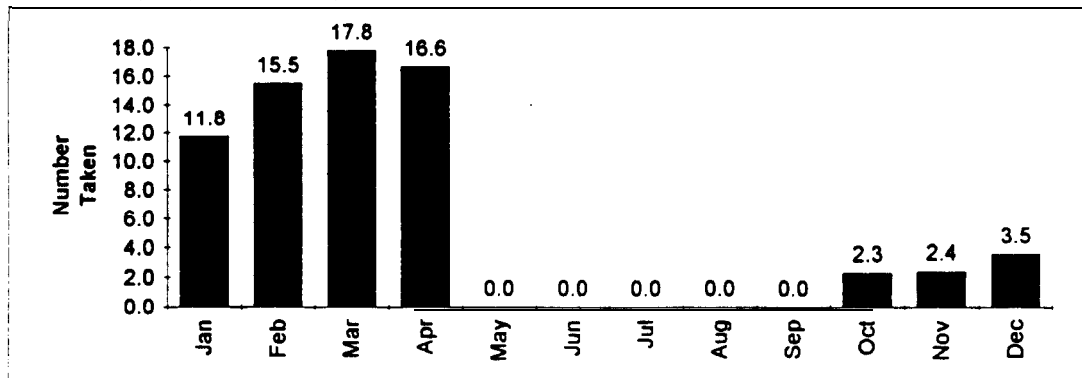
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 1993.

FIGURE 95. **SEA LION** (*Eumetopias jubatus*) TAKE ESTIMATES: SAINT GEORGE, 1992

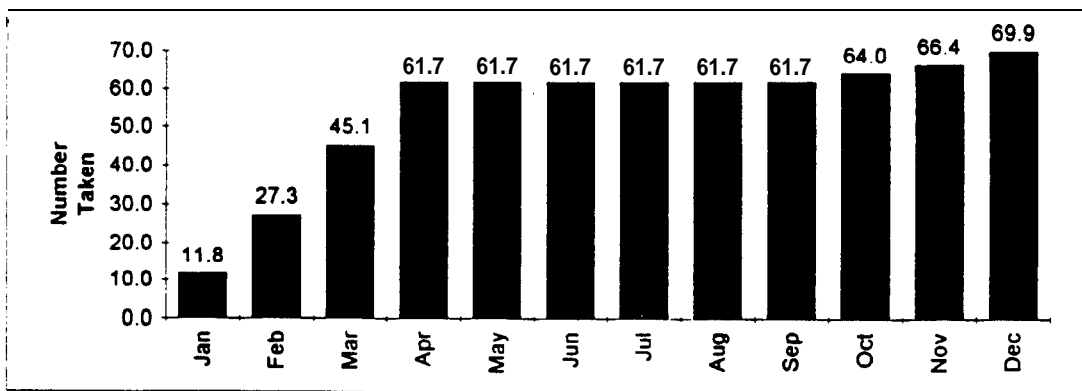
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 1993.

**TABLE 99. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SAINT GEORGE, 1992**

SAMPLING DESIGN: CENSUS

Total Native Households	47
Surveyed Households	41
Sampling Fraction	07.2%
Sample Household Members	149
Estimated Household Members	170.8

**HARBOR SEAL HARVEST AND USE INFORMATION**

Percent Of Native Households:

used	2.4%
Hunted	0.0%
Harvested	0.0%
Received	2.4%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

HARBOR SEAL HARVEST BY SEASON												Unknown		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---					---	---	---		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (a)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

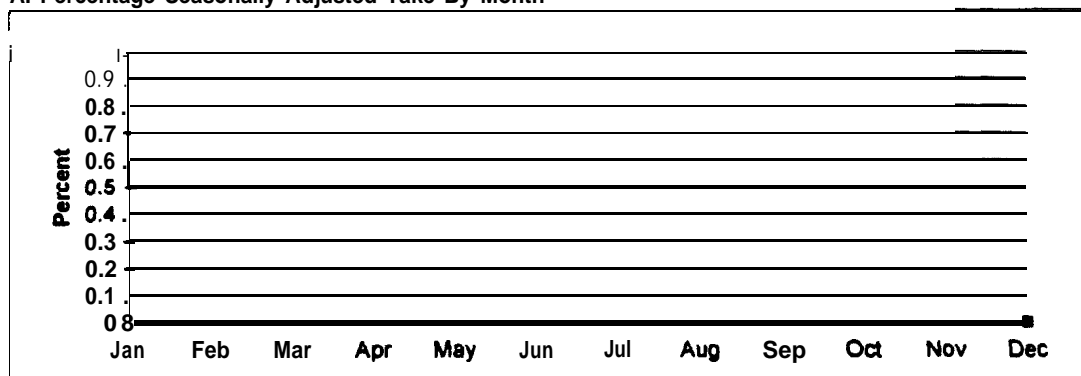
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

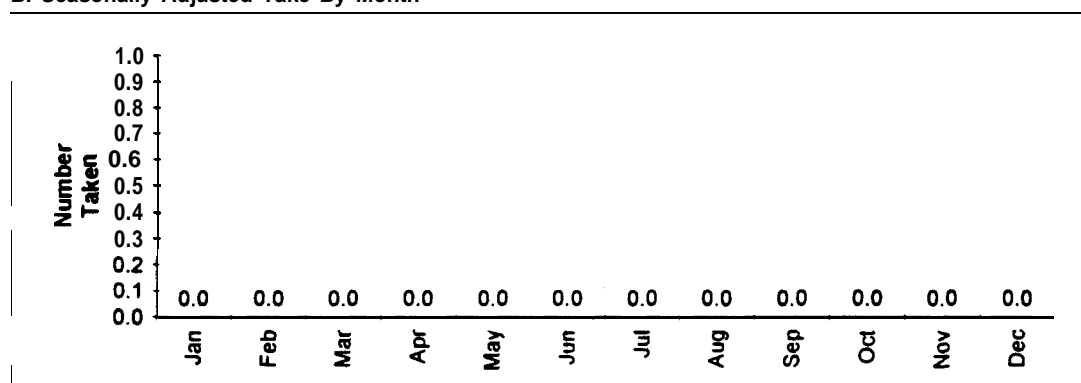
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 1993.

FIGURE 96. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SAINT GEORGE, 1092

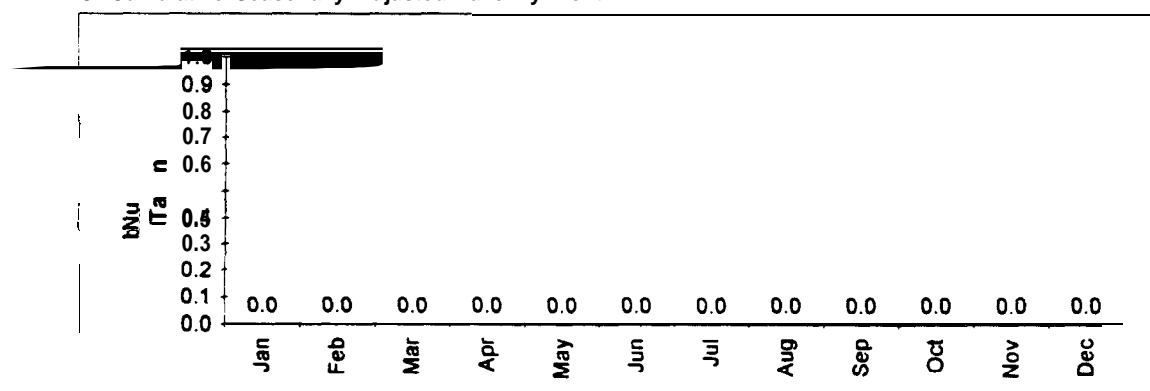
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation. 1993.

TABLE 97. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SAINT PAUL, 1992**SAMPLING DESIGN: TWO STRATA**

	Active	Other	Total
Total Native Households	61	70	131
Surveyed Households	53	31	84
Sampling Fraction	88.9%	44.3%	84.1%
Sample Household Members	231	117	348
Estimated Household Members	265.9	264.2	530.1

**SEA LION HARVEST AND USE INFORMATION**

**Percent Of Native Households:**  
 Used 85.7%  
 Hunted 57.1%  
 Harvested 44.0%  
 Received 07.9%  
 Gave Away 46.4%

**Estimated Community Harvest and Take (Expanded):**  
 Total Number Harvested 181.7  
 Total Number Struck and Lost 65.2  
 Total Number Taken 226.8  
 Number Harvested Per Capita 0.31

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNPAMPED)														
Harvest	4	5	7	6	6	0	0	3	23	19	7	7	40	127
Struck and Lost	3	3	3	0	1	0	0	0	4	6	7	1	17	47
Total Take	7	6	10	6	7	0	0	3	27	27	14	6	57	174
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.6	5.0	6.1	6.9	6.9	0.0	0.0	3.5	26.5	24.1	9.2	6.1	56.0	161.7
Struck and Lost	3.5	3.5	3.5	0.0	1.2	0.0	0.0	0.0	4.6	10.3	10.3	1.2	27.3	65.2
Total Take	10.3	9.2	11.5	6.9	0.1	0.0	0.0	3.5	31.1	34.4	19.4	9.2	63.3	226.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	10.4	6.6	12.3	10.6	10.6	0.0	0.0	5.3	40.5	36.6	14.0	12.3		161.7
struck and Lost	5.9	5.9	5.9	0.0	2.0	0.0	0.0	0.0	7.9	17.6	17.7	2.0		65.2
Total Take	16.4	14.7	10.3	10.6	12.5	0.0	0.0	5.3	46.4	54.6	31.7	14.3		226.6
Total Take (%)	7.2%	6.5%	6.1%	4.7%	5.5%	0.0%	0.0%	2.3%	21.3%	24.1%	14.0%	6.3%		100%
Cumulative Take	16.4	31.1	49.4	60.0	72.5	72.5	72.5	77.6	126.2	180.8	212.5	226.6		
Cum. Take (%)	7.2%	13.7%	21.6%	26.4%	32.0%	32.0%	32.0%	34.3%	55.6%	79.7%	93.7%	100.0%		

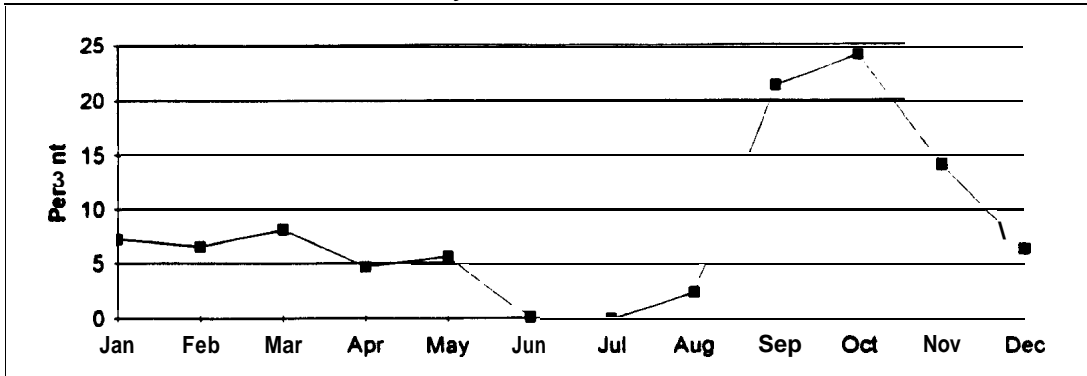
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	8	6.3%	9.2	5.7%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	82	84.8%	102.1	63.2%
Juvenile Female	1	0.8%	1.2	0.7%
Juvenile Unknown Sex	2	17.3%	33.1	20.5%
Pup Male	10	7.9%	11.5	7.1%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	4	3.1%	4.6	2.8%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	127	100.0%	161.7	100.0%

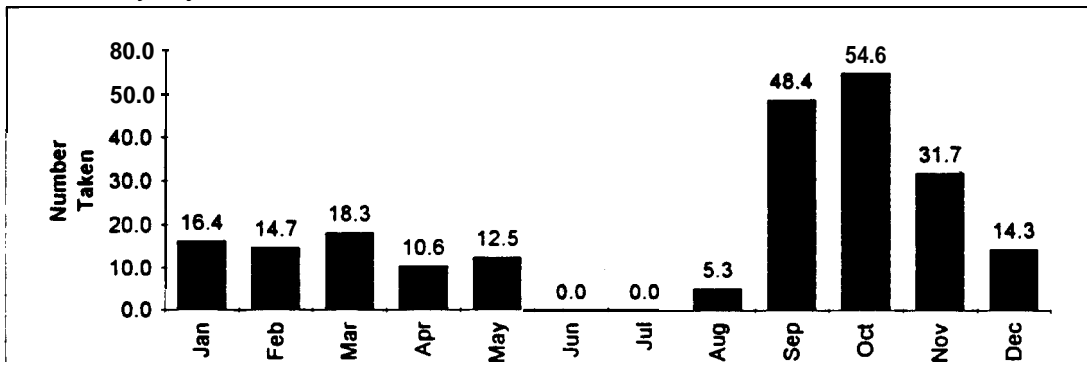
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of St. Paul and Tribal Government of St. Paul, 1993.

FIGURE 97. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SAINT PAUL, 1992

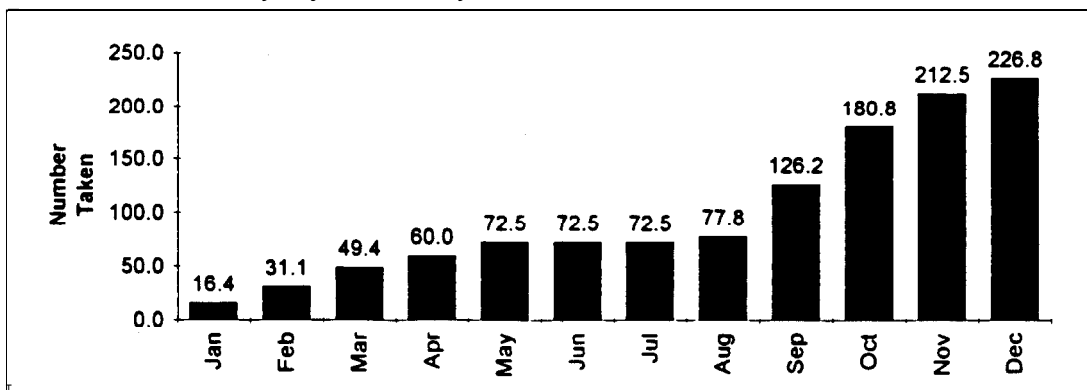
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of St. Paul and Tribal Government of St. Paul, 1993.

TABLE 99. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: UNALASKA, 1992

SAMPLING DESIGN: **TWO** STRATA

	Active	Other	Total
Total Native Households	26	51	77
Surveyed Households	21	33	54
Sampling Fraction	80.8%	64.7%	70.1%
Sample Household Members	68	96	164
Estimated Household Members	84.2	148.4	232.0

SEA LION HARVEST AND USE **INFORMATION**

**Percent** Of Native Households:  
 used 70.4%  
 Hunted 31.5%  
 Harvested 25.9%  
 Received 55.6%  
 Gave Away 42.0%

Estimated Community **Harvest and Take (Expanded):**  
 Total Number Harvested 41.8  
 Total Number Struck and Lost 16.7  
 Total Number Taken 58.5  
 Number Harvested Per Capita 0.18

SEA LION HARVEST BY SEASON													Unknown	
	Jul	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	low
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	1	1	2	4	3	4	3	4	3	4	2	33
Struck and Lost	0	0	2	0	0	2	2	0	1	1	1	1	3	13
Total Take	1	1	3	1	2	6	5	4	4	5	4	5	5	46
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.2	1.2	1.2	1.2	3.1	5.0	3.7	5.0	3.1	5.0	3.7	5.0	2.8	41.6
Struck and Lost	0.0	0.0	2.5	0.0	0.0	2.8	2.6	0.0	1.2	1.2	1.2	1.2	3.7	16.7
Total Take	1.2	1.2	3.7	1.2	3.1	7.7	5.5	5.0	5.0	6.2	5.0	6.2	6.5	58.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.3	1.3	1.3	1.3	3.3	5.3	4.0	5.3	4.0	5.3	4.0	5.3		41.0
Struck and Lost	0.0	0.0	3.2	0.0	0.0	3.6	3.6	0.0	1.6	1.6	1.6	1.6		16.7
Total Take	1.3	1.3	4.5	1.3	3.3	8.9	7.6	5.3	5.6	6.9	5.6	6.9		56.5
Total Take (%)	2.3%	2.3%	7.7x	2.3%	5.7x	15.2%	12.9%	9.1%	9.5%	11.6%	9.5%	11.6%		100%
Cumulative Take	1.3	2.7	7.2	8.5	11.8	20.7	26.2	33.6	39.1	46.0	51.6	66.5		
Cum. Take (%)	2.3%	4.5%	12.2%	14.5%	20.2%	35.4%	46.3%	57.4x	66.9%	70.7x	88.2%	100.0%		

SEA LION HARVEST BY AGE AND **SEX**

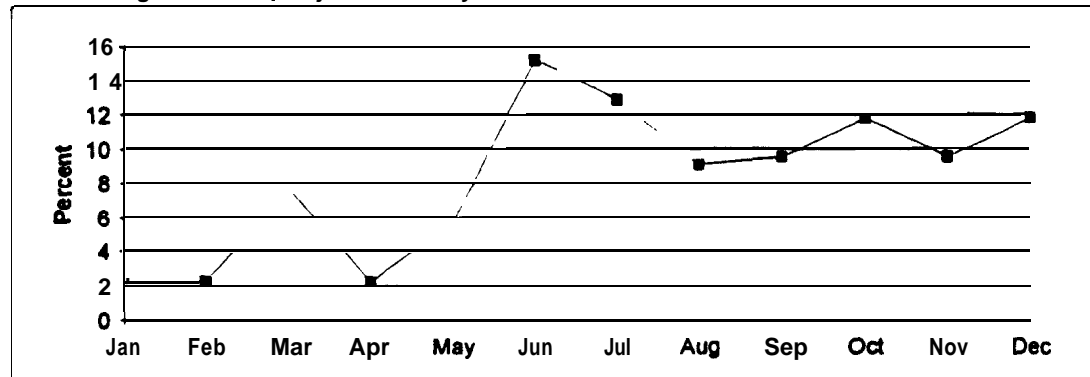
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	6	18.2%	7.4	17.8%
Adult Female	3	9.1%	3.7	8.9%
Adult Unknown Sex	4	12.1%	5.6	13.3%
Juvenile Male	12	36.4%	15.2	36.3%
Juvenile Female	8	24.2%	9.9	23.7%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	33	100.0%	41.8	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Gwich'in Tribal Council, 1993.

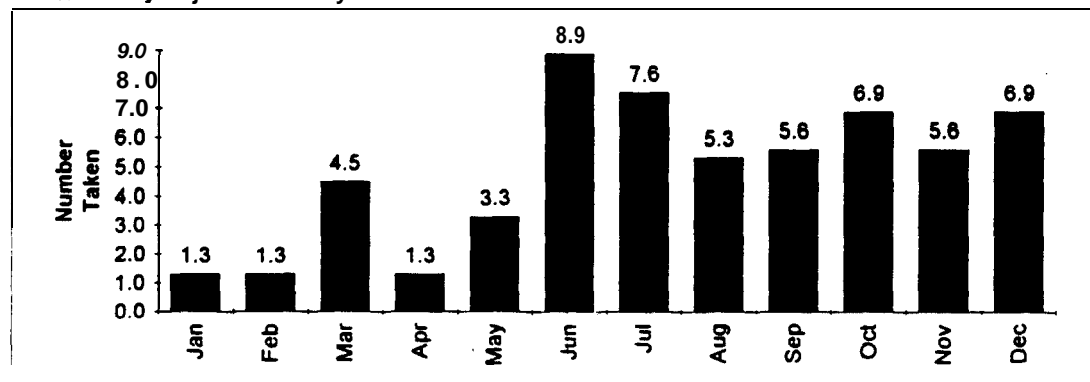


FIGURE 99. SEALION (*Eumetopias jubetus*) TAKE ESTIMATES: UNALASKA, 1992

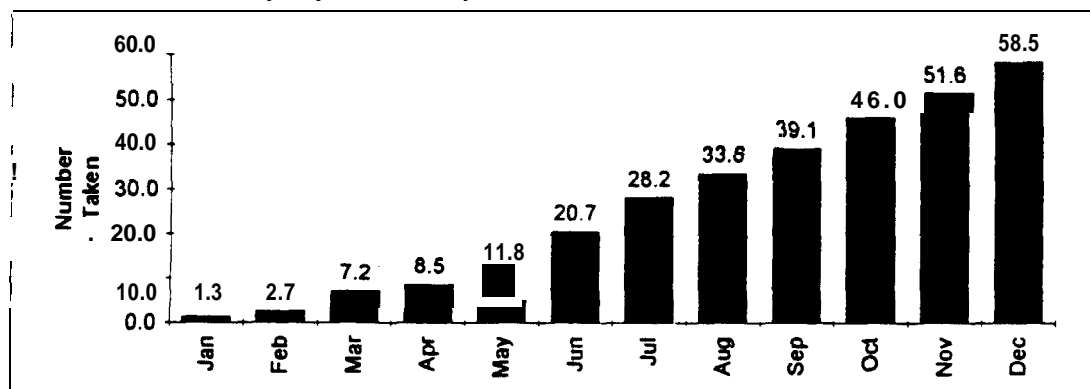
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sealions and Harbor Seals in Alaska, with assistance from the Qawalangin Tribal Council, 1993.

TABLE 100. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: UNALASKA, 1992

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	26	51	77
Surveyed Households	21	33	54
Sampling Fraction	80.8%	84.7%	70.1%
Sample Household Members	68	96	164
Estimated Household Members	84.2	148.4	232.6

HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:

used 59.3%  
Hunted 24.1%  
Harvested 20.4%  
Received 50.0%  
Gave Away 31.5%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 47.0  
Total Number Struck and Lost 3.7  
Total Number Taken 50.8  
Number Harvested Per Capita 0.20

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	kg	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	0	5	0	4	0	2	2	2	1	20	37
Struck and Lost	0	0	0	0	0	0	0	1	0	0	0	0	2	3
Total Take	0	0	1	0	5	0	4	1	2	2	2	1	22	40
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.2	0.0	6.5	0.0	5.0	0.0	2.5	2.5	2.5	1.2	25.7	47.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	2.5	3.7
Total Take	0.0	0.0	1.2	0.0	6.5	0.0	5.0	1.2	2.5	2.5	2.5	1.2	26.2	50.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.7	0.0	14.3	0.0	10.9	0.0	5.5	5.5	5.5	2.7		47.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0		3.7
Total Take	0.0	0.0	2.7	0.0	14.3	0.0	10.9	3.7	5.5	5.5	5.5	2.7		50.8
Total Take (%)	0.0%	0.0%	5.4%	0.0%	28.2%	0.0%	21.5%	7.3%	10.7%	10.7%	10.7%	5.4%		100%
Cumulative Take	0.0	0.0	2.7	2.7	17.0	17.0	27.9	31.7	37.1	42.6	48.0	50.8		
Cum. Take (%)	0.0%	0.0%	5.4x	5.4%	33.6%	33.6%	55.1%	62.4%	73.1%	83.9%	94.6%	100.0%		

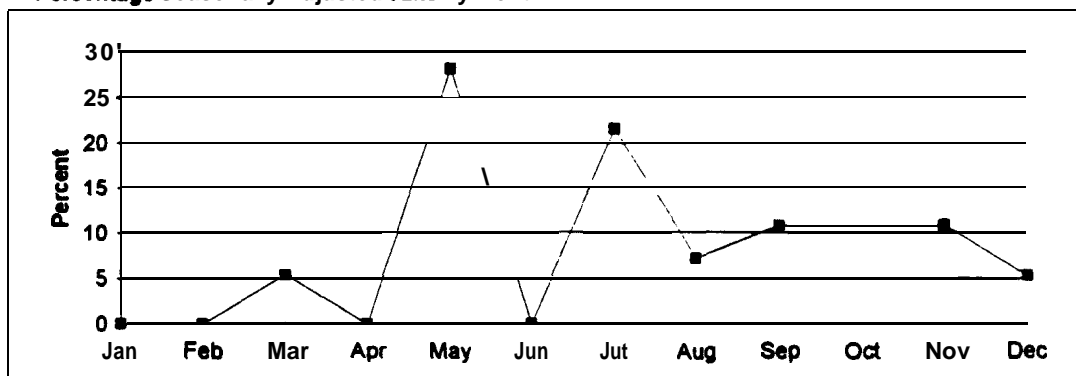
HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	13	35.1%	16.1	34.2%
Adult Female	3	8.1%	3.7	7.9%
Adult Unknown Sex	3	8.1%	4.6	9.9%
Juvenile Male	9	24.3%	11.1	23.7%
Juvenile Female	5	13.5%	6.5	13.8%
Juvenile Unknown Sex	4	10.8%	5.0	10.5%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	37	100.0%	47.0	100.0%

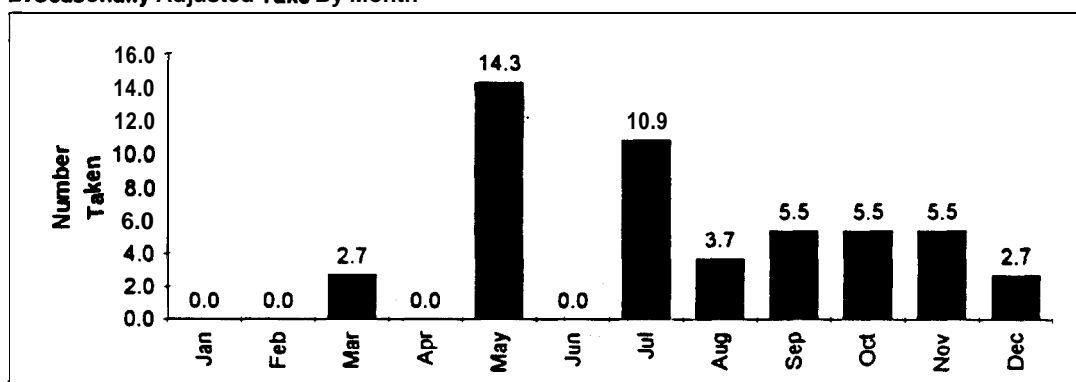
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qawalangin Tribal Council, 1993.

FIGURE 100. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: UNALASKA, 1992

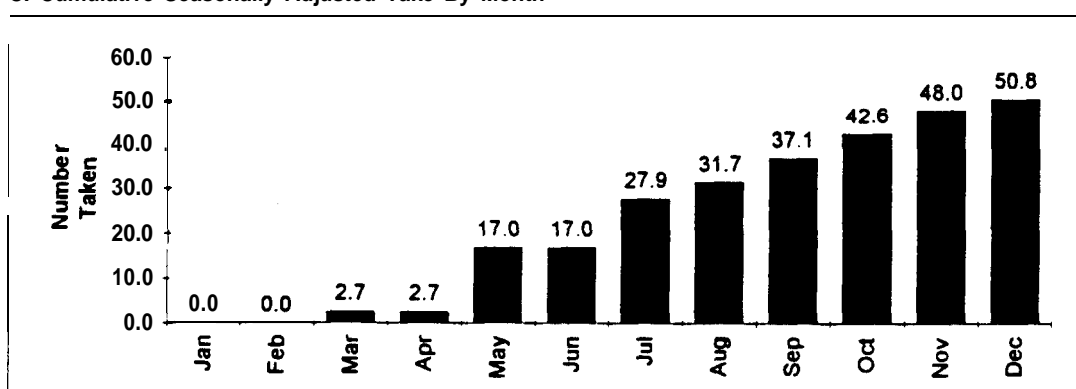
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qawalangin Tribal Council, 1993.



## SOUTH BRISTOL BAY

**TABLE 101. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: EGEGIK, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	32
Surveyed Households	29
Sampling Fraction	90.6%
Sample Household Members	63
Estimated Household Members	91.6

*SEA LION HARVEST AND USE INFORMATION*

*Percent Of Native Households:*

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

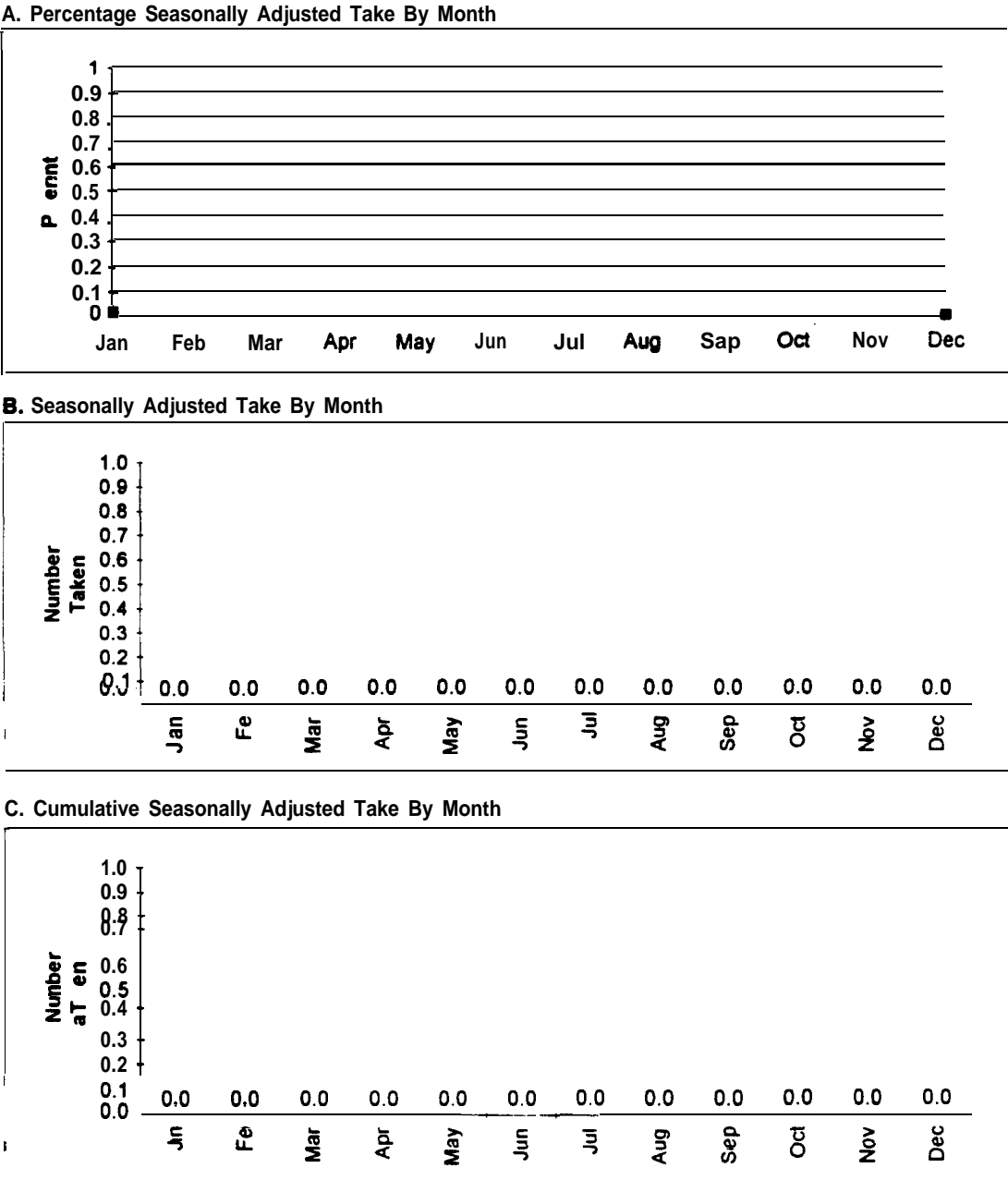
SEA LION HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take (%)	---	---	---	---	---			---	---	---	---	---			
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			

*SEA LION HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample Percent	(Unexpanded)	By Community Percent	(Expanded)
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

SOURCE: Alaska Department Of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council. 1993.

FIGURE 101. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: EGEGIK, 1992



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council, 1993.

TABLE 102. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: EGEGIK, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	32
Surveyed Households	29
Sampling Fraction	90.6%
Sample Household Members	83
Estimated Household Memben	91.6

## HARBOR SEAL HARVEST AND USE INFORMATION

**Percent** Of Native Households:

used 37.9%  
 Hunted 10.3%  
 Harvested 6.9%  
 Received 37.9%  
 Gave Away 24.1%

Estimated Community Harvest and **Take** (Expanded):

Total Number Harvested 3.3  
 Total Number Struck and Lost 14.3  
 Total Number Taken 17.7  
 Number Harvested Per Capita 0.04

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Struck and Lost	0	0	0	0	0	0	0	12	1	0	0	0	0	13
Total Take	0	0	0	0	0	0	0	15	1	0	0	0	0	16
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	3.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	1.1	0.0	0.0	0.0	0.0	14.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	1.1	0.0	0.0	0.0	0.0	17.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0		3.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	1.1	0.0	0.0	0.0		14.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	1.1	0.0	0.0	0.0		17.7
Total Takr (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	93.8%	6.2%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	17.7	17.7	17.7	17.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	93.8%	100.0%	100.0%	100.0%	100.0%		

## HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	33.3%	1.1	33.3%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	1	33.3%	1.1	33.3%
Juvenile Female	1	33.3%	1.1	33.3%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	3.3	100.0%

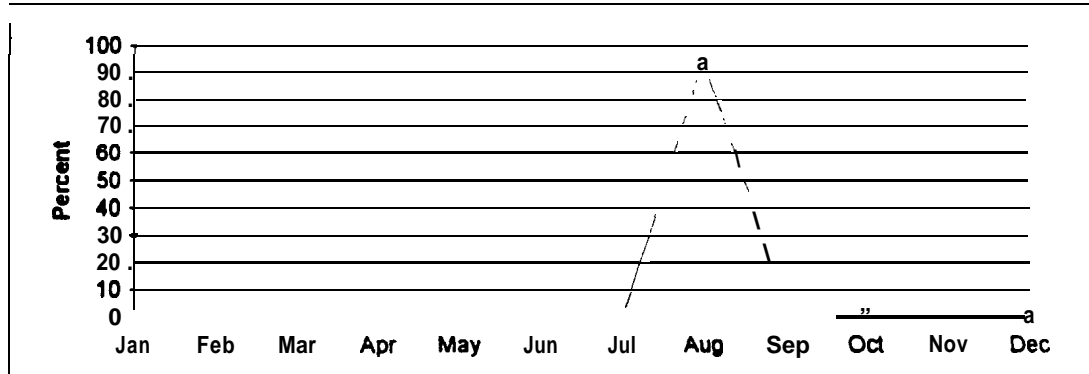
## SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Eggegik Traditional Council. 1993.

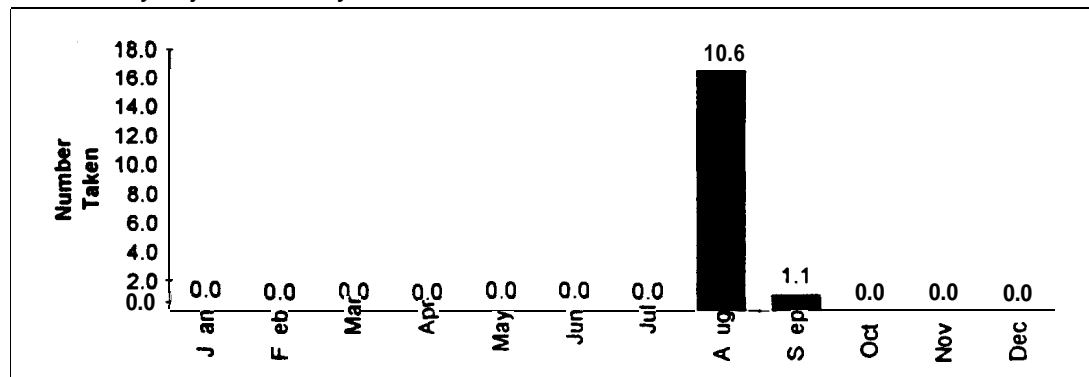


FIGURE 102. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: EGEGIK, 1992

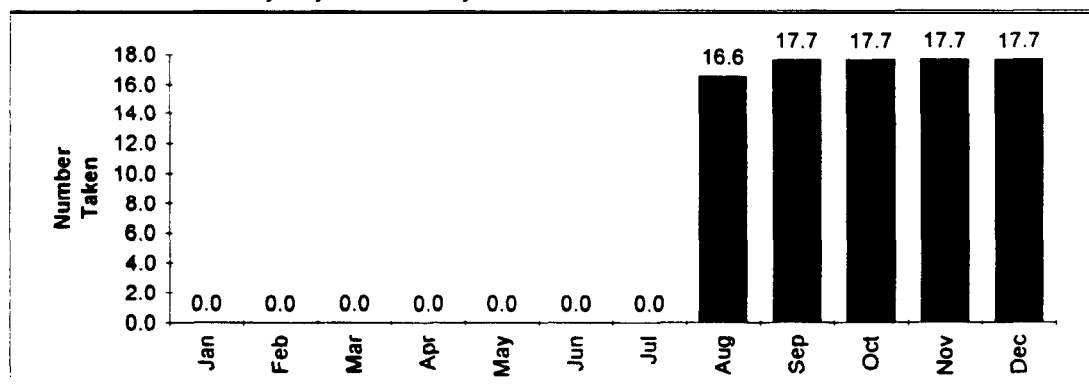
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council, 1993.

**TABLE 103. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: KING SALMON, 1992**

SAMPUNG DESIGN: CENSUS

Total Native Households	29
Surveyed Households	20
Sampling Fraction	69.0%
Sample Household Members	65
Estimated Household Members	94.3

**SEA LION HARVEST AND USE INFORMATION**

**Percent** Of Native Households:  
 used 0.0%  
 Hunted 0.0%  
 Harvested 0.0%  
 Received 0.0%  
 Gave Away 0.0%

Estimated Community Harvest and Take (Expanded):  
 Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita 0.00

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

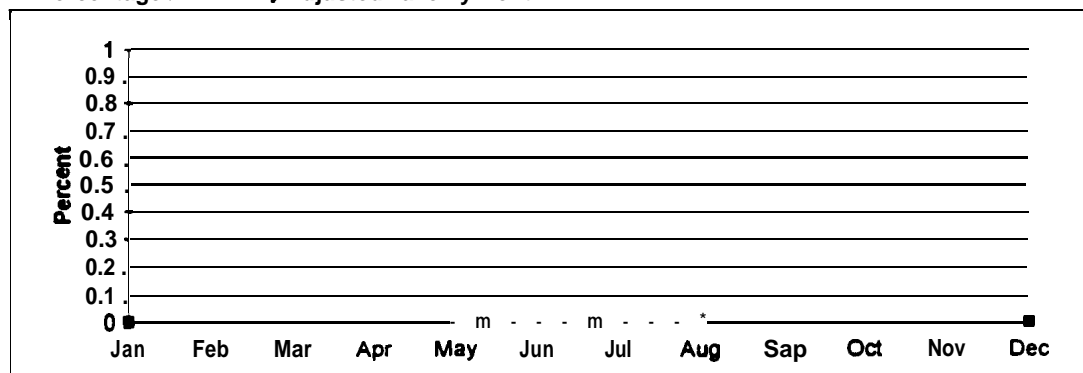
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

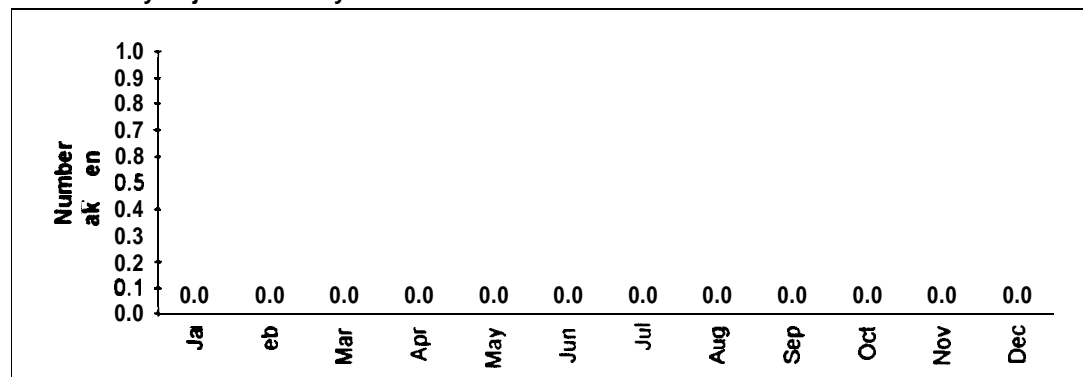
SOURCE: Alaska Department Of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and I-labor Seals in Alaska, with assistance from the King Salmon Traditional Council. 1993

FIGURE 103. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: KING SALMON, 1992

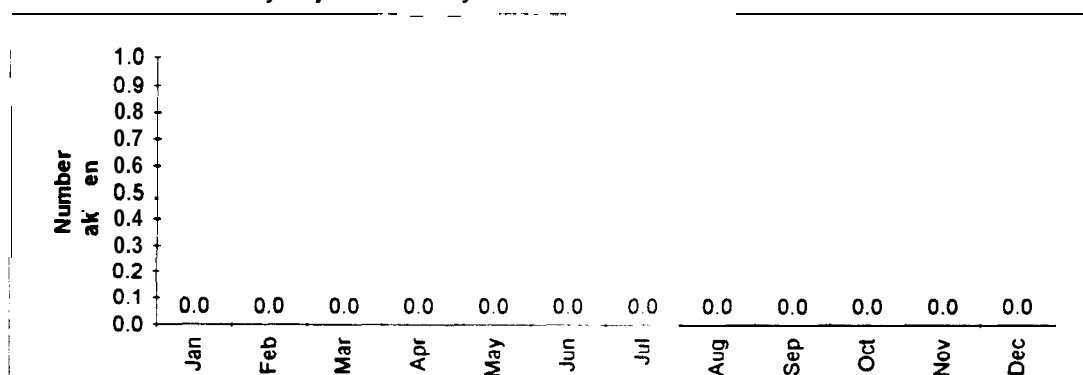
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE:

Alaska Department Of Fish and Game, Division Of Subsistence, Subsistence Study  
 System for Sea Lions and Harbor Seals in the Gulf of Alaska with assistance from  
 the King Salmon Traditional Council, 1993

**TABLE 104. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: KING SALMON, 1992**

SAMPLING DESIGN: CENSUS

Total Native Households	29
Surveyed Households	20
Sampling Fraction	69.0%
Sample Household Members	65
Estimated Household Members	94.3

**HARBOR SEAL HARVEST AND USE INFORMATION**

**Percent** Of Native Households:  
used 35.0%  
Hunted 25.0%  
Harvested 15.0%  
Received 30.0%  
Gave Away 30.0%

Estimated Community Harvest and Take (Expanded):  
Total Number Harvested 10.2  
Total Number Struck and Lost 0.0  
Total Number Taken 10.2  
Number Harvested Per Capita 0.11

**HARBOR SEAL HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	0	0	0	0	0	6	0	0	0	0	7
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	1	0	0	0	0	0	6	0	0	0	0	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	10.2
Struck and Last	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	10.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0		10.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0		10.2
Total Take (X)	0.0%	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	65.7%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	10.2	10.2	10.2	10.2		
Cum. Take (%)	0.0%	0.0%	14.3%	14.3%	14.3%	14.3%	14.3%	14.3%	100.0%	100.0%	100.0%	100.0%		

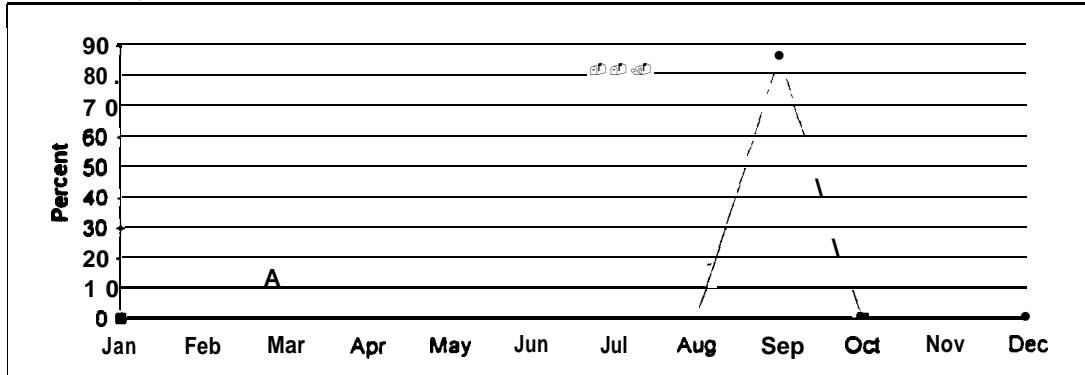
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	2	28.6%	2.9	28.6%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	5	71.4%	7.3	71.4%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	7	100.0%	10.2	100.0%

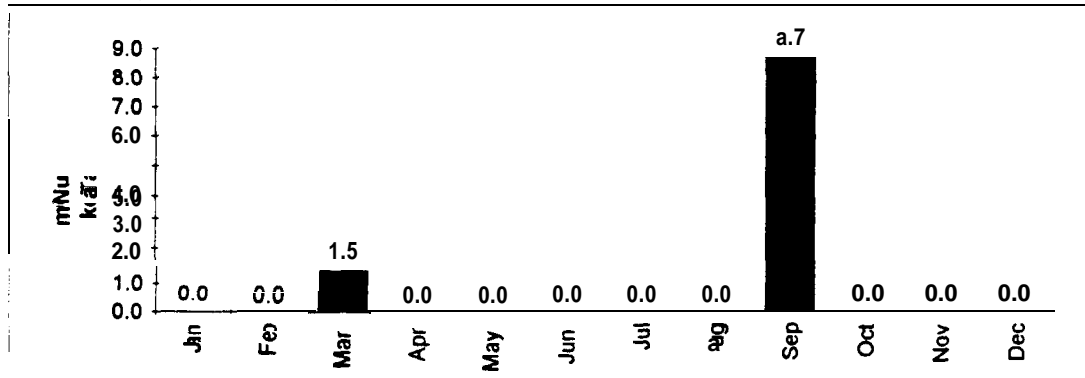
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the King Salmon Traditional Council, 1993.

**FIGURE 104. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: KING SALMON, 1992**

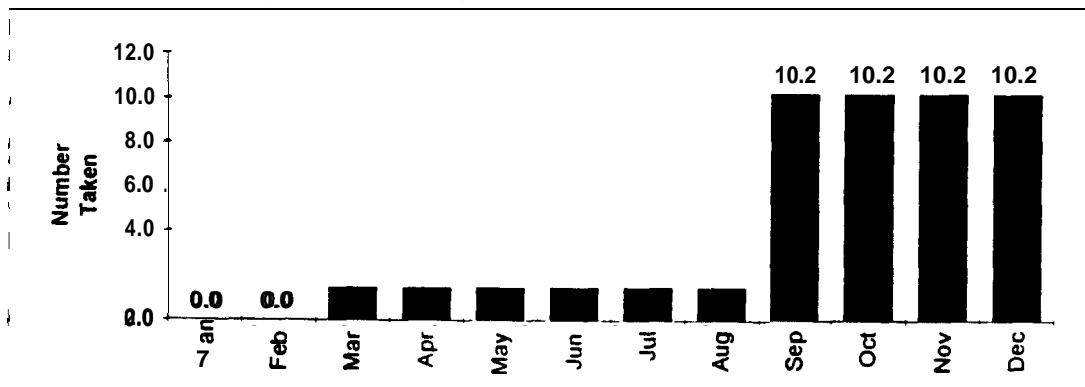
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department Of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the King Salmon Traditional Council. 1993.

**TABLE 105. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: LEVELOCK, 1992**

SAMPLING DESIGN: CENSUS

Total Native Households	43
Surveyed Households	32
Sampling Fraction	74.4%
Sample Household Members	88
Estimated Household Members	118.3

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:

used	3.1%
Hunted	0.0%
Harvested	0.0%
Received	3.1%
Gave Away	0.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	sap	ocl	Nov	Dac	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harwst	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (WPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harwst	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

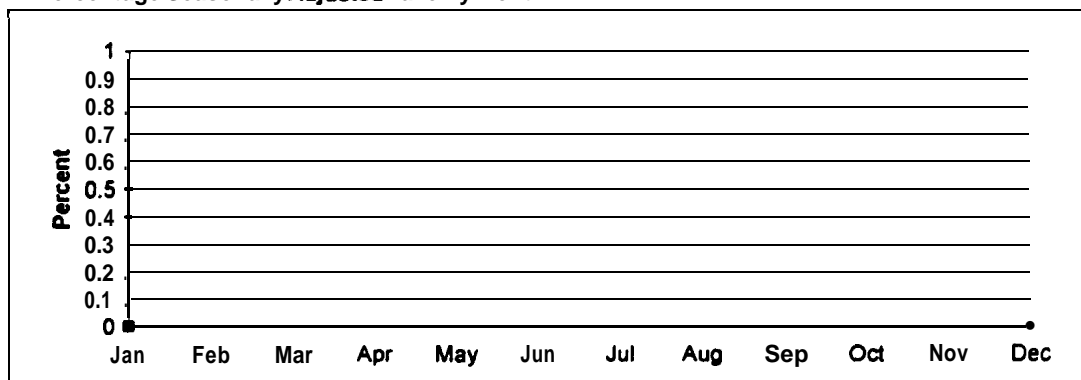
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

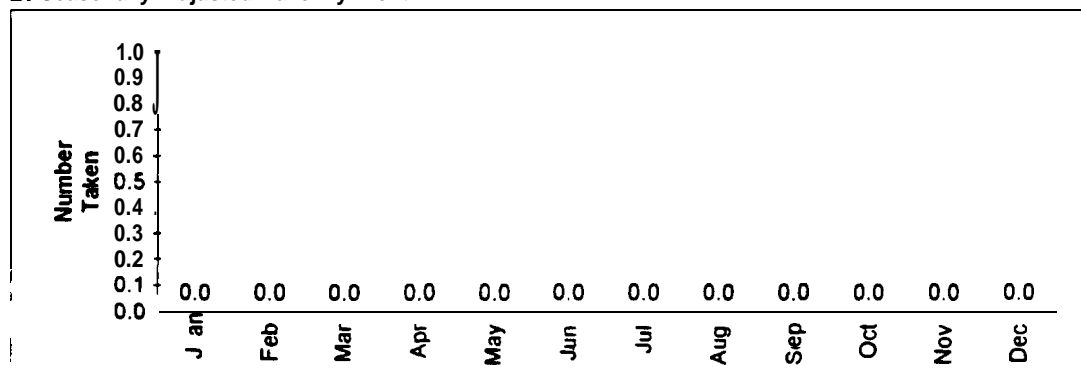
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Levelock Traditional Council. 1993.

FIGURE 105. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: LEVELOCK, 1992

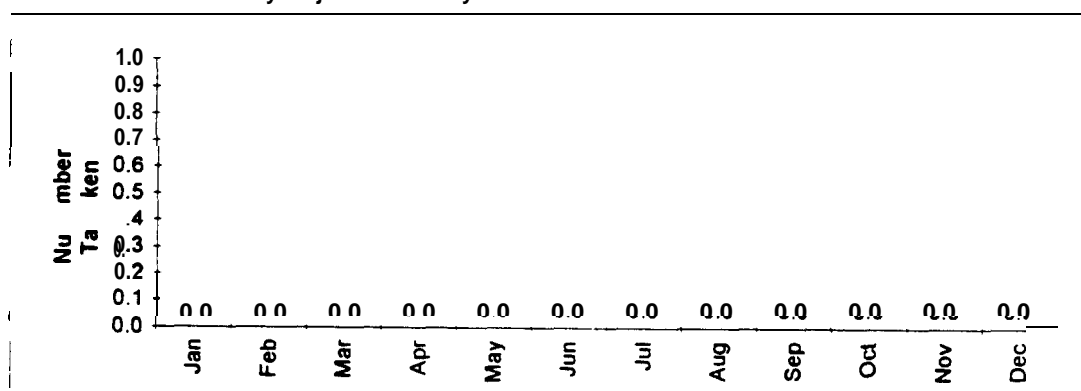
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with data from the Levelock Traditional Council, 1993.

**TABLE 106. HARBOR SEAL (*Phocavitulina*) HARVEST AND TAKE ESTIMATES: LEVELOCK, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	43
Surveyed Households	32
Sampling Fraction	74.4%
Sample Household Members	88
Estimated Household Members	118.3

*HARBOR SEAL HARVEST AND USE INFORMATION*

*Percent Of Native Households:*

used 56.3%  
 Hunted 21.9%  
 Harvested 18.8%  
 Received 48.9%  
 Gave Away 25.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 10.8  
 Total Number Struck and Lost 0.0  
 Total Number Taken 10.8  
 Number Harvested Per Capita 0.09

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	ool	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	2	2	0	2	2	0	0	0	0	8
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	2	2	0	2	2	0	0	0	0	8
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Hal-vast	0.0	0.0	0.0	0.0	2.7	2.7	0.0	2.7	2.7	0.0	0.0	0.0	0.0	10.8
Struck and Losl	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Taks	0.0	0.0	0.0	0.0	2.7	2.7	0.0	2.7	2.7	0.0	0.0	0.0	0.0	10.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.7	2.7	0.0	2.7	2.7	0.0	0.0	0.0		10.8
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	2.7	2.7	0.0	2.7	2.7	0.0	0.0	0.0		10.8
Total Take (%)	0.0%	0.0%	0.0%	0.0%	25.0%	25.0%	0.0%	25.0%	25.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	2.7	5.4	5.4	81	10.8	10.8	10.8	10.8		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	25.0%	50.0%	50.0%	75.0%	100.0%	100.0%	100.0%	100.0%		

*HARBOR SEAL HARVEST BY AGE AND SEX*

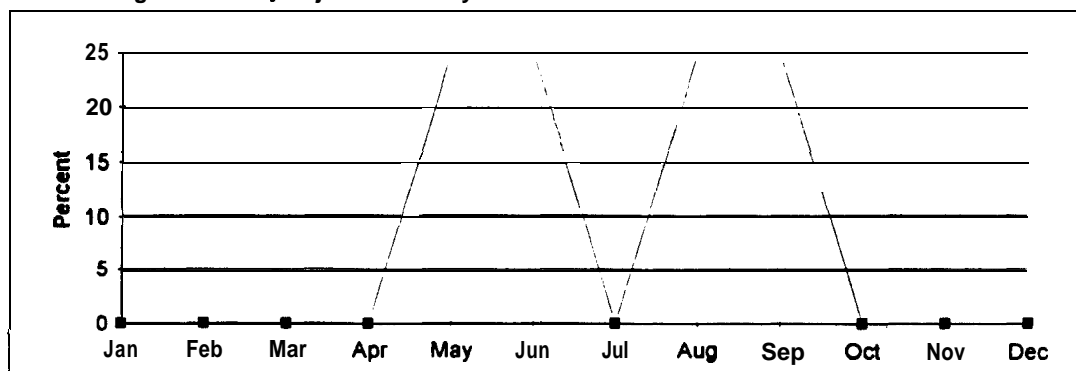
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	3	37.5%	4.0	37.5%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	3	37.5%	4.0	37.5%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	25.0%	2.7	25.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	8	100.0%	10.8	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Levelock Traditional Council, 1993

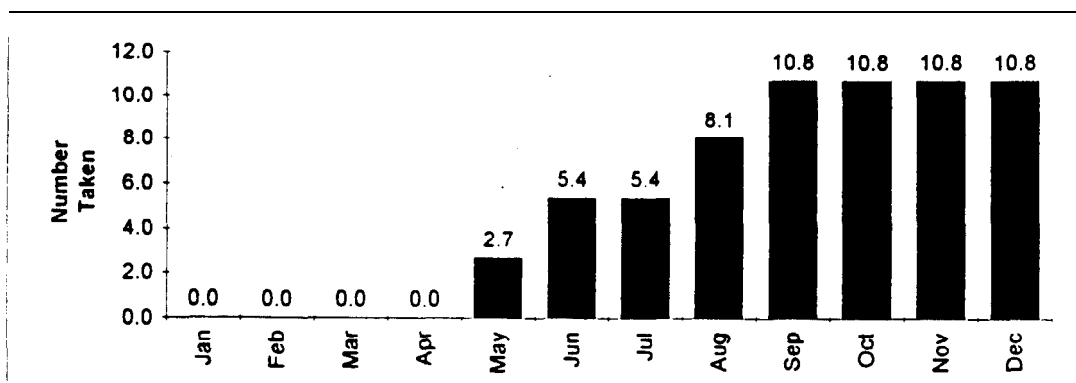
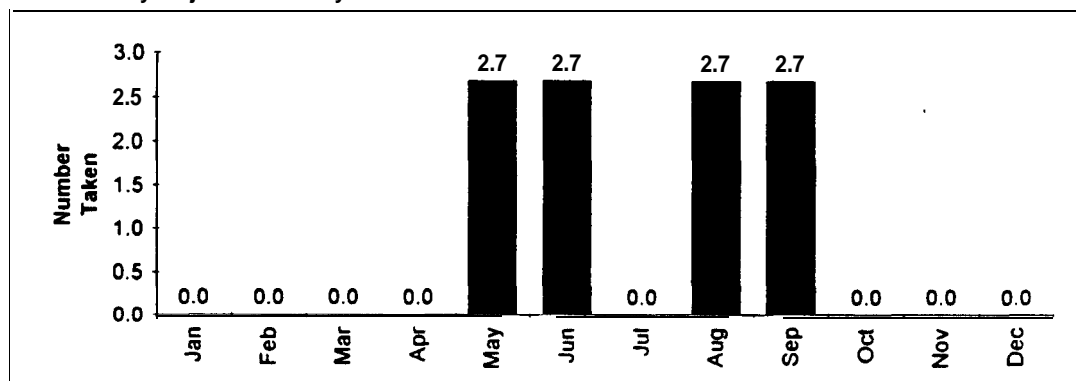


FIGURE 106. HARBOR SEAL (*Phocavitulina*) TAKE ESTIMATES: LEVELOCK, 1992

A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



SOURCE:

Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Levelock Traditional Council, 1993.

TABLE 107. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: NAKNEK, 1992

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	18	76	94
Surveyed Households	18	30	48
Sampling Fraction	100.0%	39.5%	51.1%
Sample Household Members	67	95	162
Estimated Household Members	67.0	240.7	307.7

## SEA LION HARVEST AND USE INFORMATION

Percent Of **Native** Households:

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

**Estimated** Community **Harvest and Take** (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—				—	—	—	—		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

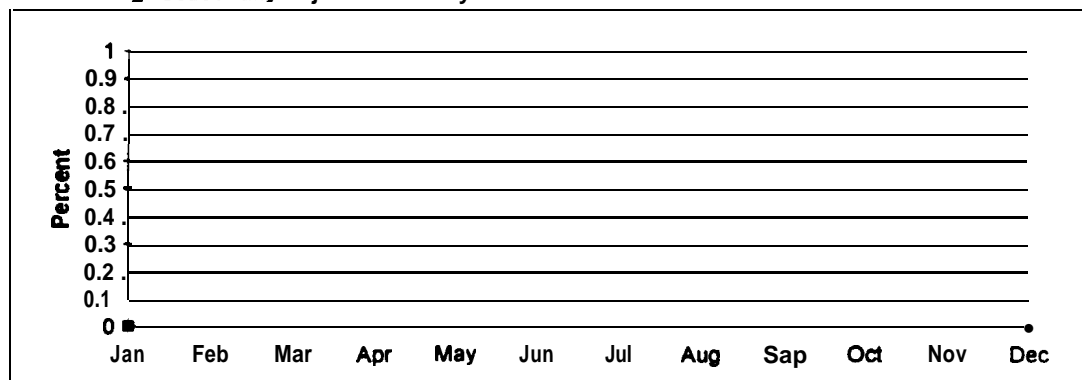
## SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

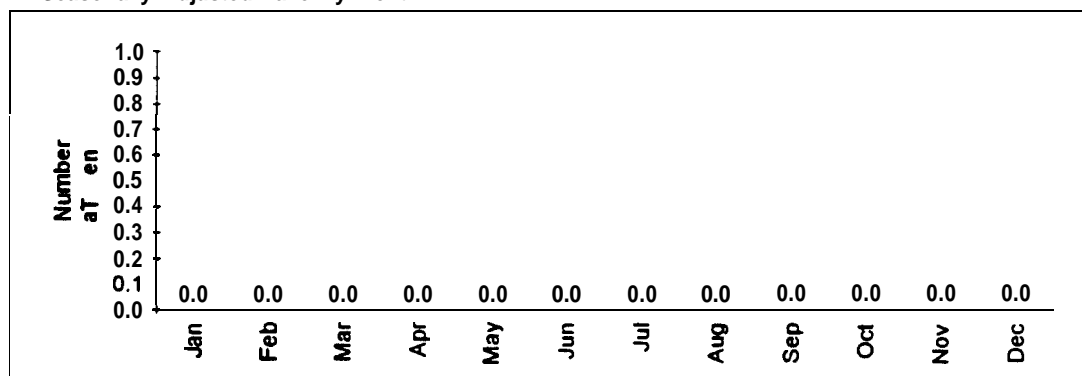
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Naknek Traditional Council. 1993.

FIGURE 107. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: NAKNEK, 1992

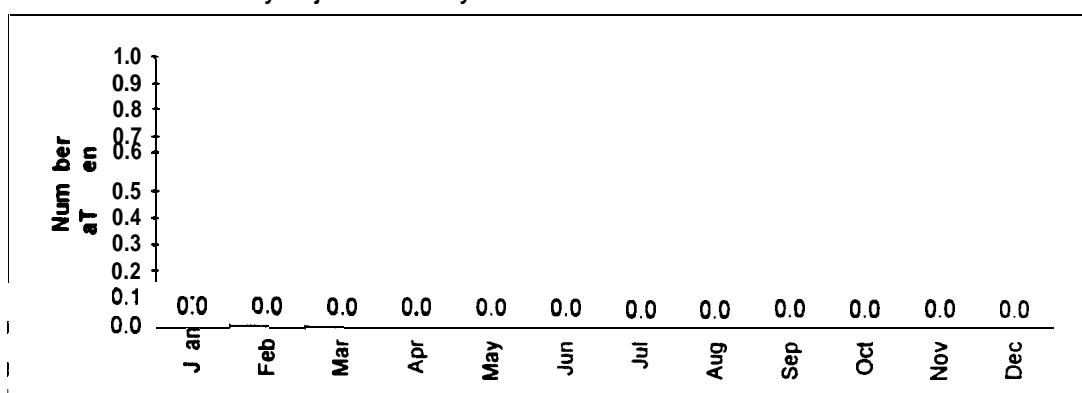
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Naknek Traditional Council. 1993.

**TABLE 108. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: NAKNEK, 1992**

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	18	78	Q4
Surveyed Households	18	30	48
Sampling Fraction	100.0%	39.5%	51.1%
Sample Household Members	67	95	162
Estimated Household Members	87.0	240.7	307.7

**HARBOR SEAL HARVEST AND USE INFORMATION**

**Percent Of Native Households:**

Used 45.8%  
Hunted 14.6%  
Harvested 12.5%  
Received 41.7%  
Gave Away 20.6%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested 26.6  
Total Number Struck and Lost 7.0  
Total Number Taken 33.6  
Number Harvested Per Capita 0.09

**HARBOR SEAL HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	8	a	0	0	5	1	0	0	0	0	22
struck and Lost	0	0	0	2	2	0	0	2	1	0	0	0	0	7
Total Take	0	0	0	10	10	0	0	7	2	0	0	0	0	29
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	9.5	11.1	0.0	0.0	5.0	1.0	0.0	0.0	0.0	0.0	26.6
Struck and Lost	0.0	0.0	0.0	2.0	2.0	0.0	0.0	2.0	1.0	0.0	0.0	0.0	0.0	7.0
Total Take	0.0	0.0	0.0	11.5	13.1	0.0	0.0	7.0	2.0	0.0	0.0	0.0	0.0	33.6
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	9.5	11.1	0.0	0.0	5.0	1.0	0.0	0.0	0.0		26.6
Struck and Lost	0.0	0.0	0.0	2.0	2.0	0.0	0.0	2.0	1.0	0.0	0.0	0.0		7.0
Total Take	0.0	0.0	0.0	11.5	13.1	0.0	0.0	7.0	2.0	0.0	0.0	0.0		33.6
Total Take (%)	0.0%	0.0%	0.0%	34.3%	36.9%	0.0%	0.0%	20.6%	6.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	11.5	24.6	24.6	24.6	31.6	33.6	33.6	33.6	33.6		
Cum. Take (%)	0.0%	0.0%	0.096	34.3%	73.2%	73.2%	73.2%	94.0%	100.0%	100.0%	100.0%	100.0%		

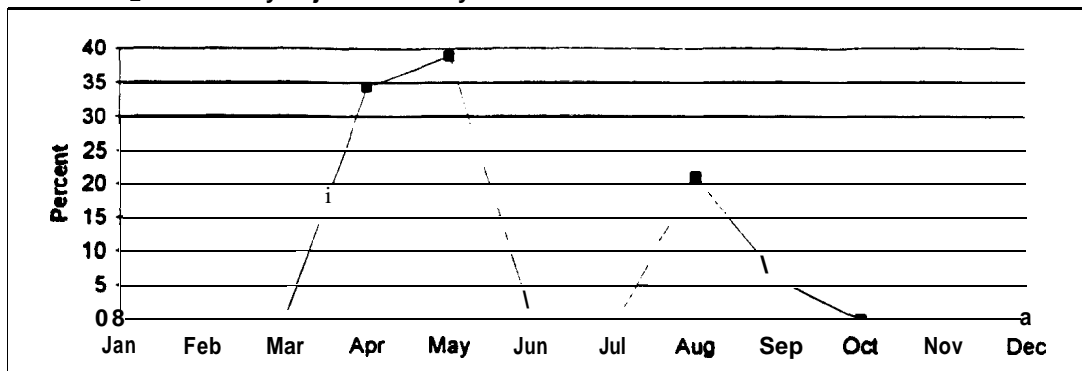
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	9	40.9%	9.0	33.8%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	4.5%	2.5	9.5%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	12	54.5%	15.1	56.6%
Total	22	100.0%	26.6	100.0%

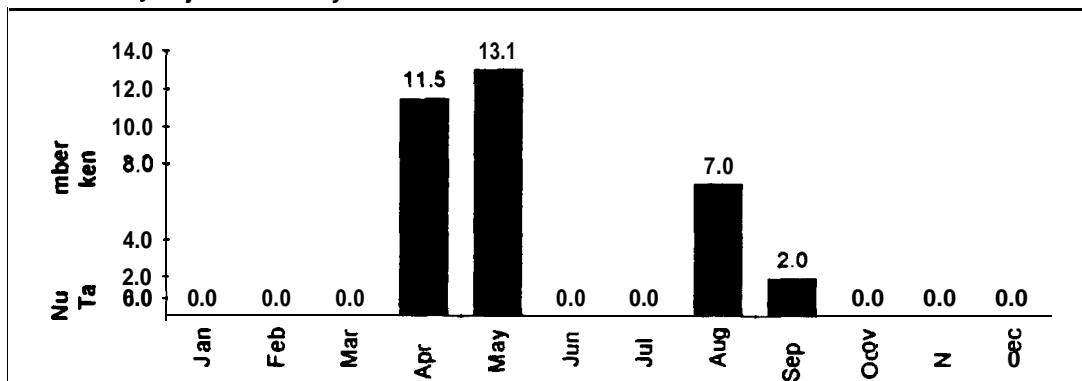
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Naknek Traditional Council, IQQ3.

FIGURE 108. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: NAKNEK, 1992

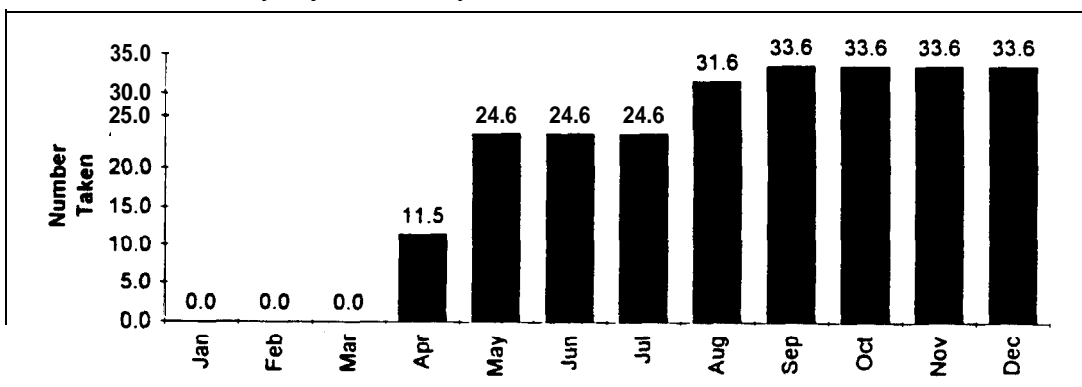
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Naknek Traditional Council. 1993.

TABLE 109. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PILOT POINT, 1992**SAMPLING DESIGN: CENSUS**

Total Native Households	27
Surveyed Households	25
Sampling Fraction	92.6%
Sample Household Members	80
Estimated Household Members	86.4

**SEA LION HARVEST AND USE INFORMATION**

**Percent Of Native Households:**  
used 0.0%

Hunted 0.0%  
Harvested 0.0%  
Received 0.0%  
Gave Away 0.0%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	0.0
Total Number Strunk and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
struok and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	

**SEA LION HARVEST BY AGE AND SEX**

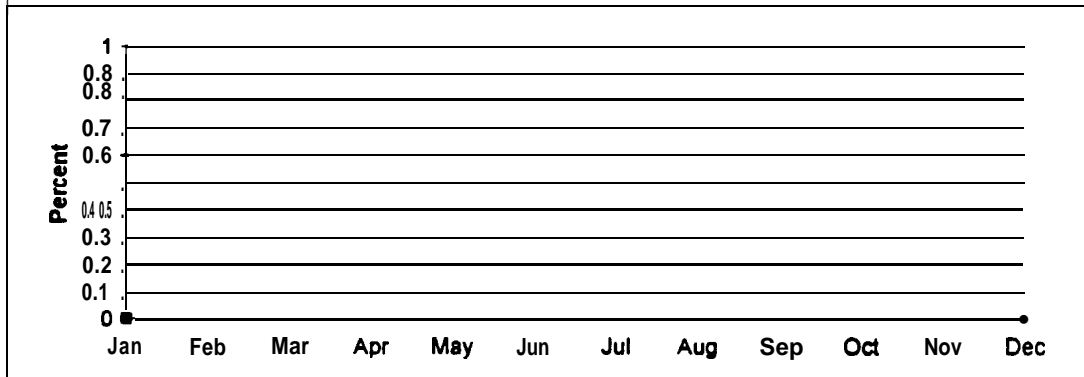
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expended)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	--	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	--	0.0	--
Pup Female	0	--	0.0	--
Pup Unknown Sex	0		0.0	---
Male Unknown Age		---	0.0	--
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	--
Total	0	---	0.0	---

**SOURCE:**

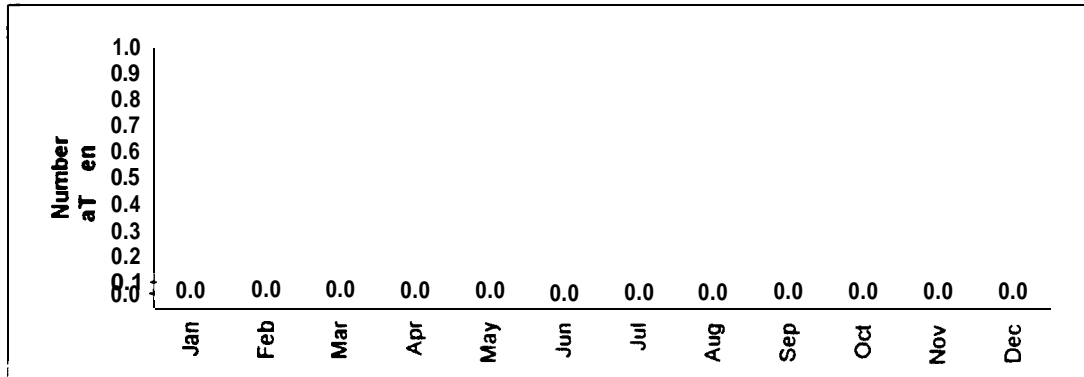
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Pilot Point Traditional Council, 1993.

FIGURE 109. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PILOT POINT, 1992

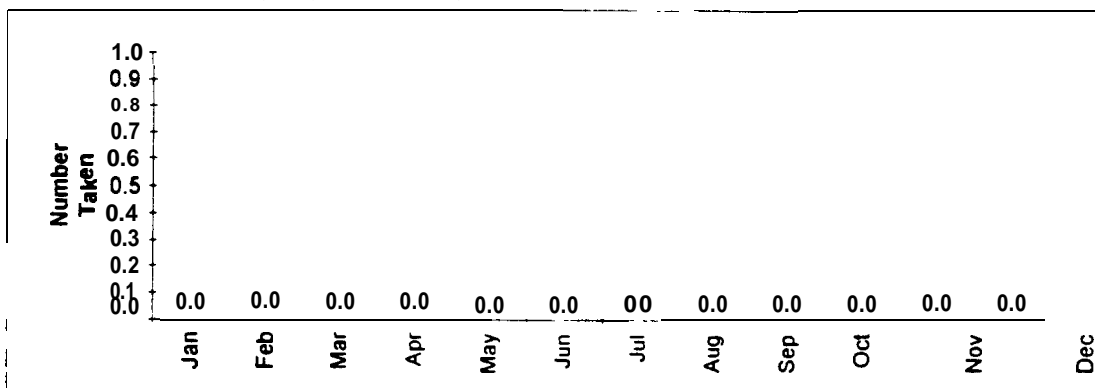
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Pilot Point Traditional Council, 1993.

**TABLE 110. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PILOT POINT, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	27
Surveyed Households	25
Sampling Fraction	92.6%
Sample Household Members	00
Estimated Household Members	06.4

**HARBOR SEAL HARVEST AND USE INFORMATION**

Percent Of Native Households:  
**used 40.0%**  
**Hunted 24.0%**  
**Harvested 16.0%**  
**Received 36.0%**  
**Gave Away 20.0%**

Estimated Community Harvest and Take (Expanded):  
 Total Number Harvested **5.4**  
 Total Number Struck and Lost **4.3**  
 Total Number Taken **9.7**  
 Number Harvested Per Capita **0.06**

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	1	0	0	1	0	2	0	0	0	0	0	5
Struck and Lost	0	0	1	0	0	0	2	1	0	0	0	0	0	4
Total Take	1	0	2	0	0	1	2	3	0	0	0	0	0	9
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	0.0	1.1	0.0	0.0	1.1	0.0	2.2	0.0	0.0	0.0	0.0	0.0	5.4
Struck and Lost	0.0	0.0	1.1	0.0	0.0	0.0	2.2	1.1	0.0	0.0	0.0	0.0	0.0	4.3
Total Take	1.1	0.0	2.2	0.0	0.0	1.1	2.2	3.2	0.0	0.0	0.0	0.0	0.0	9.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	0.0	1.1	0.0	0.0	1.1	0.0	2.2	0.0	0.0	0.0	0.0		5.4
Struck and Lost	0.0	0.0	1.1	0.0	0.0	0.0	2.2	1.1	0.0	0.0	0.0	0.0		4.3
Total Take	1.1	0.0	2.2	0.0	0.0	1.1	2.2	3.2	0.0	0.0	0.0	0.0		9.7
Total Take (%)	11.1%	0.0%	22.2%	0.0%	0.0%	11.1%	22.2%	33.3%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	1.1	1.1	3.2	3.2	3.2	4.3	6.5	9.7	9.7	9.7	9.7	9.7		
Cum. Take (%)	11.1%	11.1%	33.3%	33.3%	33.3%	44.4%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%		

**HARBOR SEAL HARVEST BY AGE AND SEX**

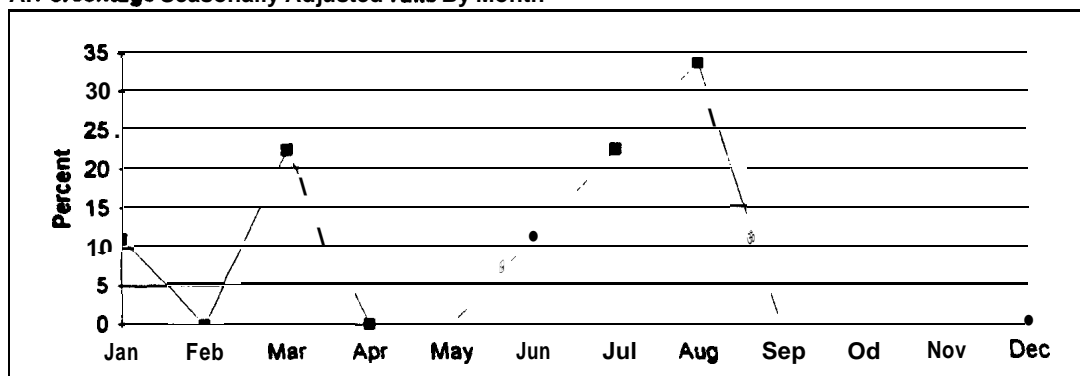
	<b>Reported</b>		<b>Estimated</b>	
	<b>By Sample Percent</b>		<b>By Community Percent</b>	
	<b>(Unexpanded)</b>		<b>(Expanded)</b>	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	4	80.0%	4.3	80.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	20.0%	1.1	20.0%
<b>Total</b>	<b>5</b>	<b>100.0%</b>	<b>5.4</b>	<b>100.0%</b>

SOURCE: Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assistance from the Pilot Point Traditional Council, 1993.

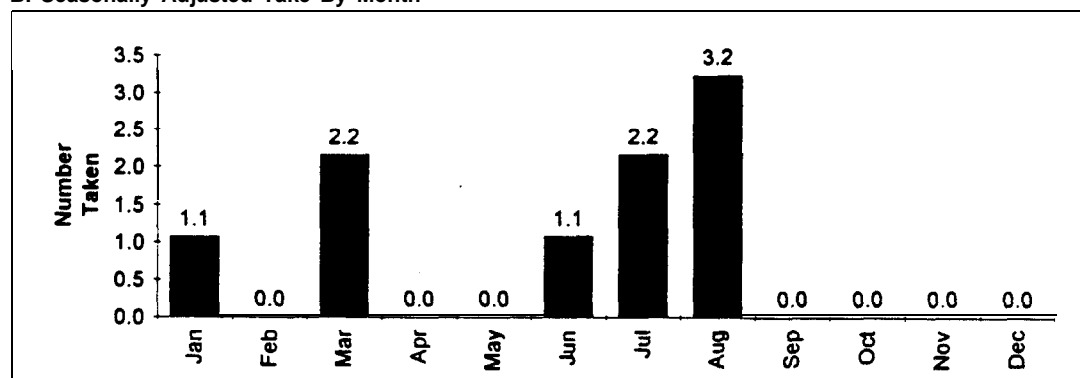


FIGURE 110. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PILOT POINT, 1992

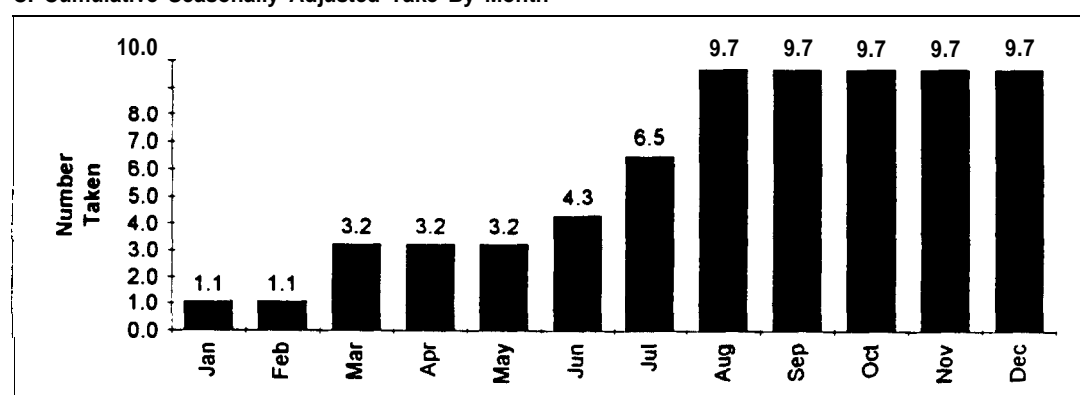
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Pilot Point Traditional Council. 1993.

**TABLE 111. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: PORT HEIDEN, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	27
Surveyed Households	18
Sampling Fraction	66.7%
Sample Household Members	57
Estimated Household Members	85.5

*SEA LION HARVEST AND USE INFORMATION*

Percent Of Native Households:  
*used* 0.0%  
 Hunted 0.0%  
 Harvested 0.0%  
 Received 0.0%  
 Gave Away 0.0%

Estimated Community Harvest and Take (Expanded):  
 Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita 0.00

SEA LION HARVEST BY SEASON												Unknown		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

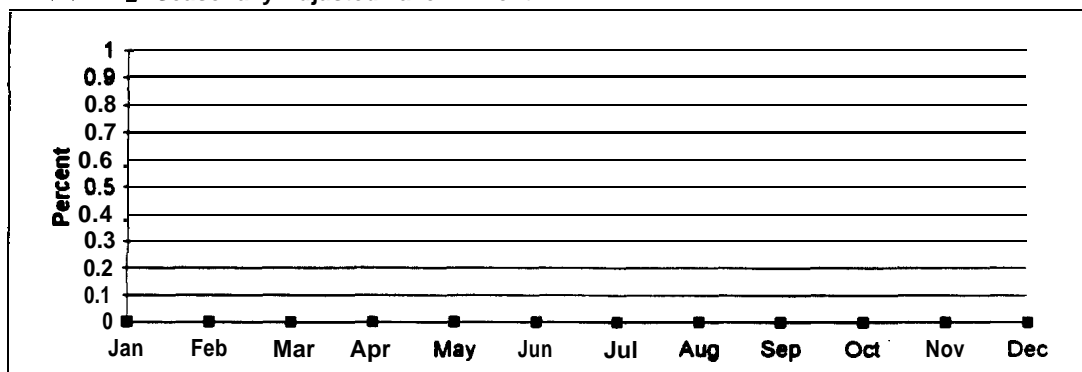
*SEA LION HARVEST BY AGE AND SEX*

	Reported	Percent	Estimated	Percent
	By Sample (Unexpanded)		By Community (Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

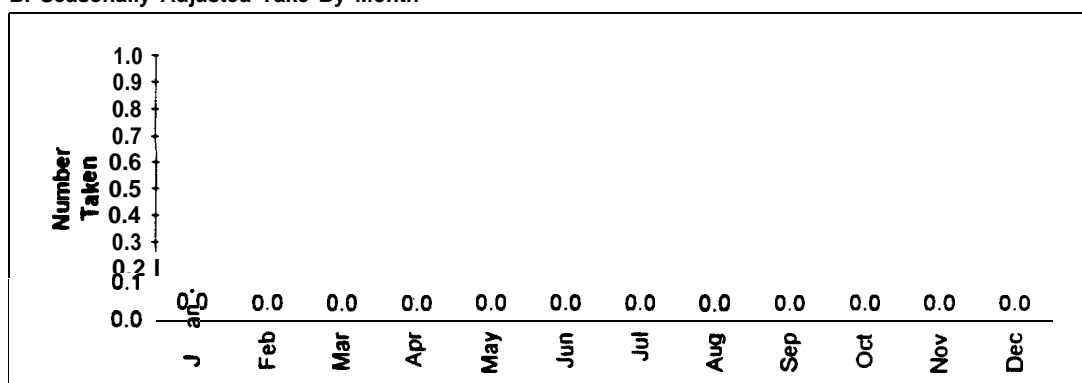
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Heiden Traditional Council, 1993.

FIGURE 111. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: PORT HEIDEN, 1992

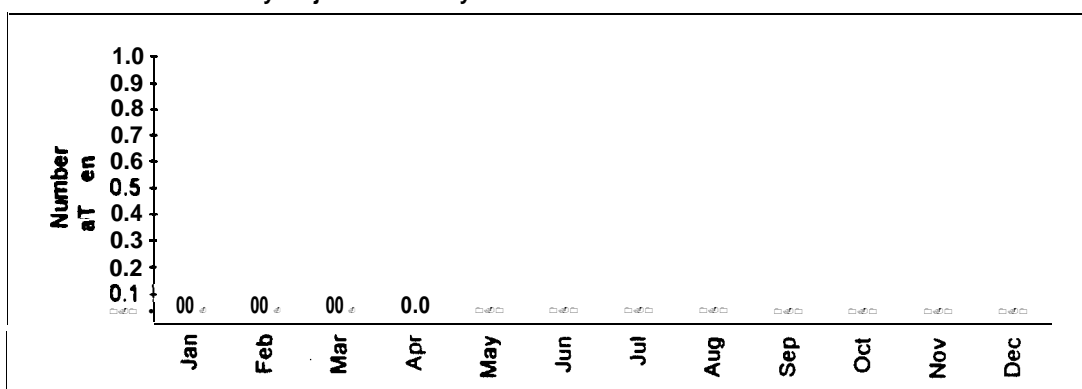
A Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Heiden Traditional Council, 1993.

TABLE 112. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: PORT HEIDEN, 1992**SAMPLING DESIGN: CENSUS**

Total Native Households	27
Surveyed Households	18
Sampling Fraction	66.7%
Sample Household Members	57
Estimated Household Members	85.5

**HARBOR SEAL HARVEST AND USE INFORMATION**

**Percent** Of Nativ Households:  
 used 83.3%  
 Hunted 44.4%  
 Harvested 38.9%  
 Received 83.3%  
 Gave Away 30.9%

Estimated Community **Harvest** and Take (Expanded):  
 Total Number Harvested 40.5  
 Total Number Struck and Lost 22.5  
 Total Number Taken 63.0  
 Number Harvested Per Capita 0.47

HARBOR SEAL HARVEST <i>BY</i> SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	6	0	10	1	0	0	0	9	27
Struck and Lost	0	0	0	0	0	4	4	5	2	0	0	0	0	15
Total Take	0	0	0	1	0	10	4	15	3	0	0	0	9	42
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.5	0.0	9.0	0.0	15.0	1.5	0.0	0.0	0.0	13.5	40.5
Struck and Lost	0.0	0.0	0.0	0.0	0.0	6.0	6.0	7.5	3.0	0.0	0.0	0.0	0.0	22.5
Total Takr	0.0	0.0	0.0	1.5	0.0	15.0	6.0	22.5	4.5	0.0	0.0	0.0	13.5	63.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.3	0.0	13.5	0.0	22.5	2.3	0.0	0.0	0.0		40.5
Struck and Lost	0.0	0.0	0.0	0.0	0.0	6.0	6.0	7.5	3.0	0.0	0.0	0.0		22.5
Total Takr	0.0	0.0	0.0	2.3	0.0	19.5	6.0	30.0	5.3	0.0	0.0	0.0		63.0
Total Take (%)	0.0%	0.0%	0.0%	3.6%	0.0%	31.0%	9.5%	47.6%	8.3%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	2.3	2.3	21.8	27.8	57.8	63.0	63.0	63.0	63.0		
Cum. Take (%)	0.0%	0.0%	0.0%	3.6%	3.6%	34.5%	44.0%	91.7%	100.0%	100.0%	100.0%	100.0%		

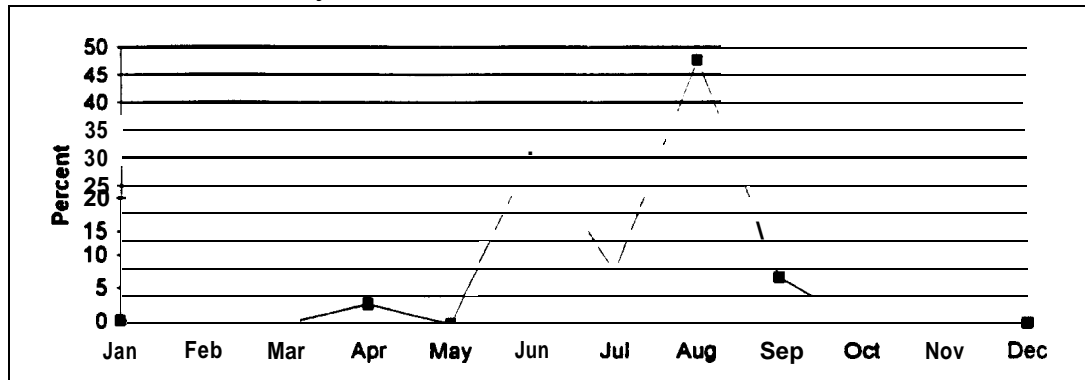
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	1	3.7%	1.5	3.7%
Adult Female	1	3.7%	1.5	3.7%
Adult Unknown Sex	21	77.8%	31.5	77.8%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	3	11.1%	4.5	11.1%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	3.7%	1.5	3.7%
Total	27	100.0%	40.5	100.0%

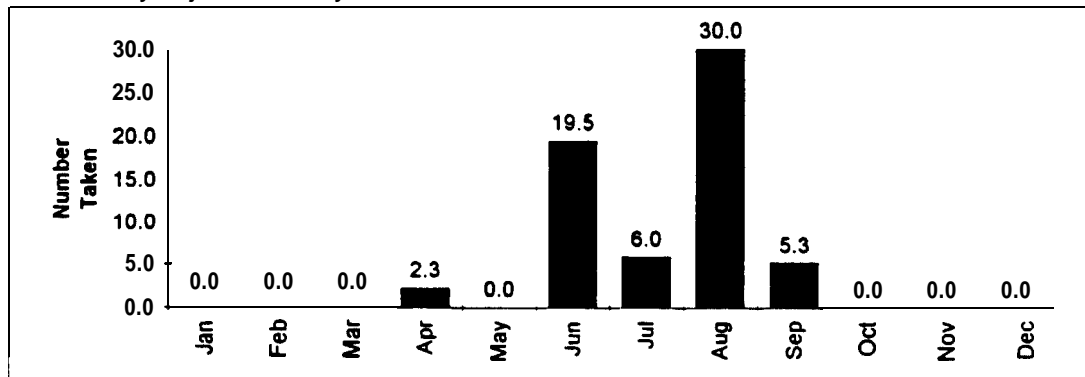
SOURCE: Alaska Department of Fish and Game. Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Heiden Traditional Council, 1993.

FIGURE 112. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: PORT HEIDEN, 1992

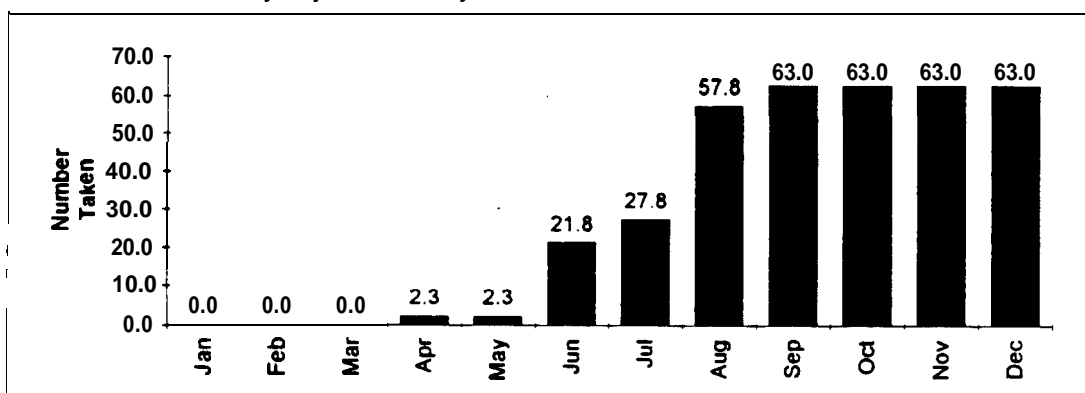
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Heiden Traditional Council, 1993.

TABLE 113. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: SOUTH NAKNEK, 1992**SAMPLING DESIGN: CENSUS**

Total Native Households	30
Surveyed Households	26
Sampling Fraction	66.7%
Sample Household Members	90
Estimated Household Members	103.6

**SEA LION HARVEST AND USE INFORMATION****Percent Of Native Households:**

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	a	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—			—	—	—	—	—		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

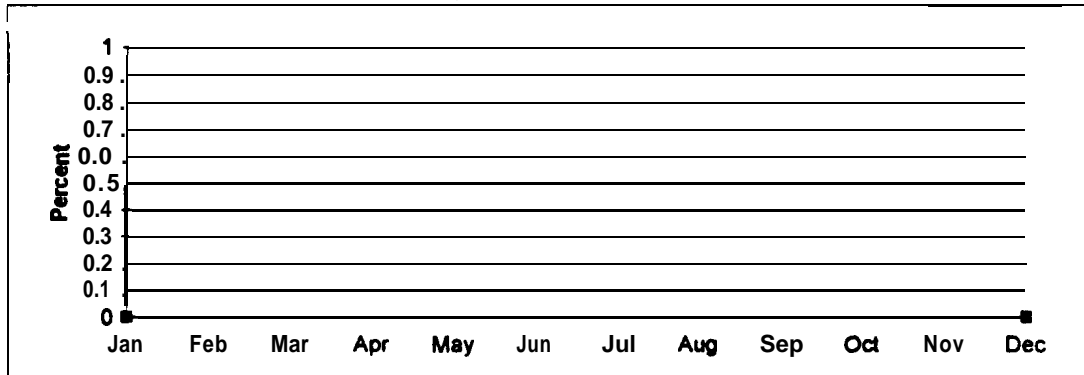
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	--	0.0	--
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	--	0.0	--
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	--
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	--
Unknown Sex and Age	0	---	0.0	---
Total	0	--	0.0	---

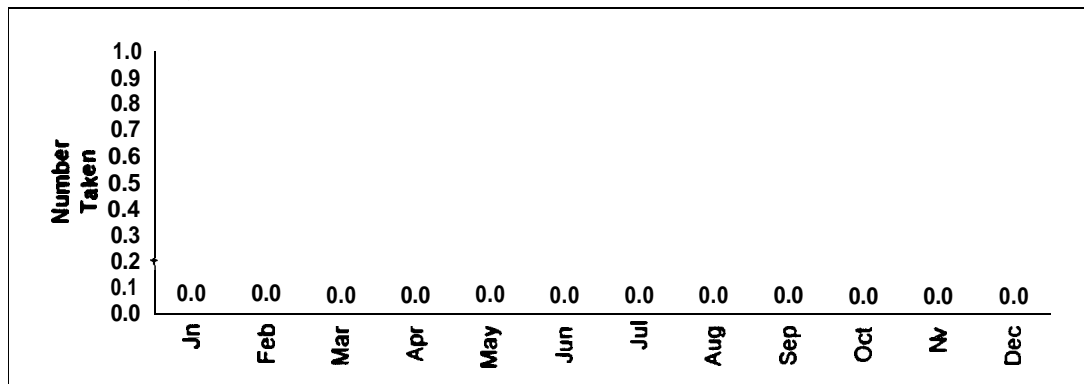
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the South Naknek Traditional Council, 1993.

FIGURE 113. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: SOUTH NAKNEK, 1992

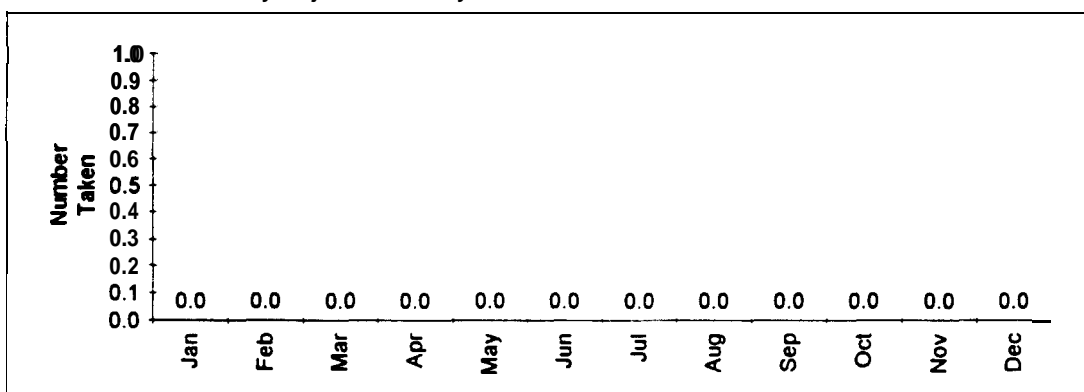
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System. Sea Lion and Fur Seal Harvests in Alaska, with a special report to the South Naknek Traditional Council, 1993.

TABLE 114. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: SOUTH NAKNEK, 1992**SAMPLING DESIGN: CENSUS**

Total Native Households	30
Surveyed Households	26
Sampling Fraction	86.7%
Sample Household Members	90
Estimated Household Members	103.8

**HARBOR SEAL HARVEST AND USE INFORMATION**

**Percent Of Native Households:**  
 used 61.5%  
 Hunted 11.5%  
 Harvested 7.7%  
 Received 57.7%  
 Gave Away 34.6%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	2.3
Total Number Struck and Lost	6.9
Total Number Taken	9.2
Number Harvested Per Capita	0.02

HARBOR SEAL HARVEST BY SEASON														Unknown
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	1	0	1	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	2	0	1	0	3	0	6
Total Take	0	0	0	0	0	0	0	3	0	2	0	3	0	8
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0	2.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	1.2	0.0	3.5	0.0	6.9
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	2.3	0.0	3.5	0.0	9.2
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	0.0	0.0		2.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	1.2	0.0	3.5		6.9
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	2.3	0.0	3.5		9.2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	37.5%	0.0%	25.0%	0.0%	37.5%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	5.6	5.5	9.2		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	37.5%	37.5%	62.5%	52.5%	100.0%		

**HARBOR SEAL HARVEST BY AGE AND SEX**

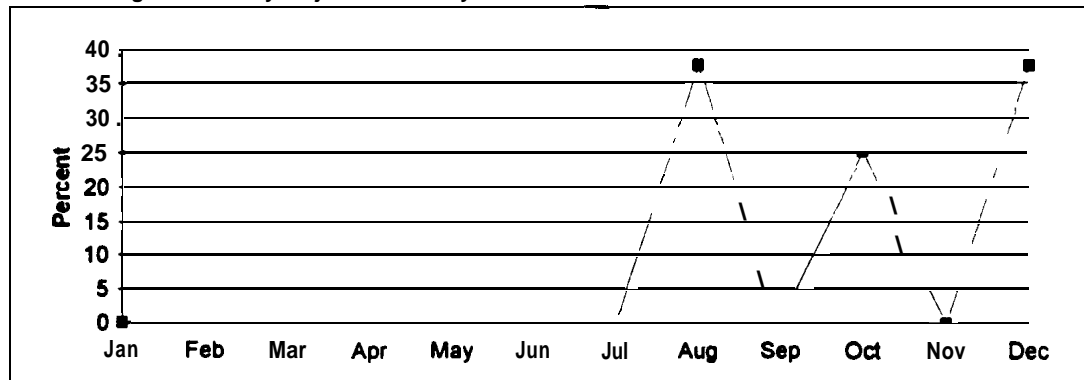
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	2	100.0%	2.3	100.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	2.3	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the South Naknek Traditional Council, 1993.

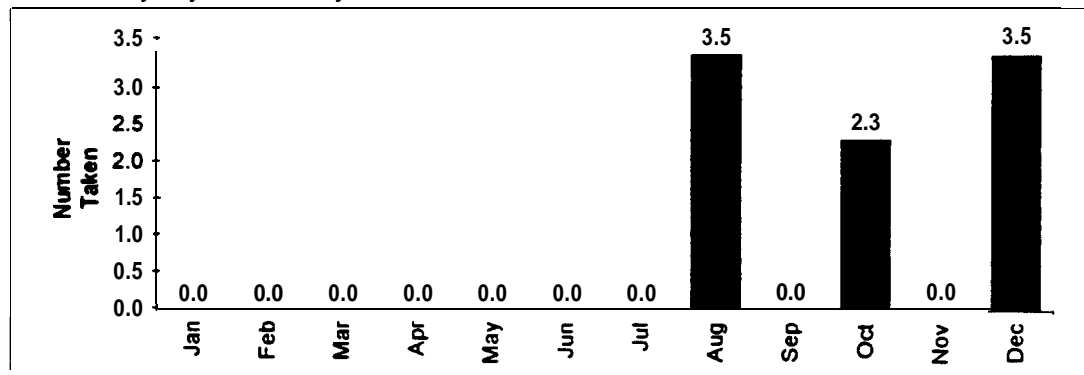


FIGURE 114. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: SOUTH NAKNEK, 1992

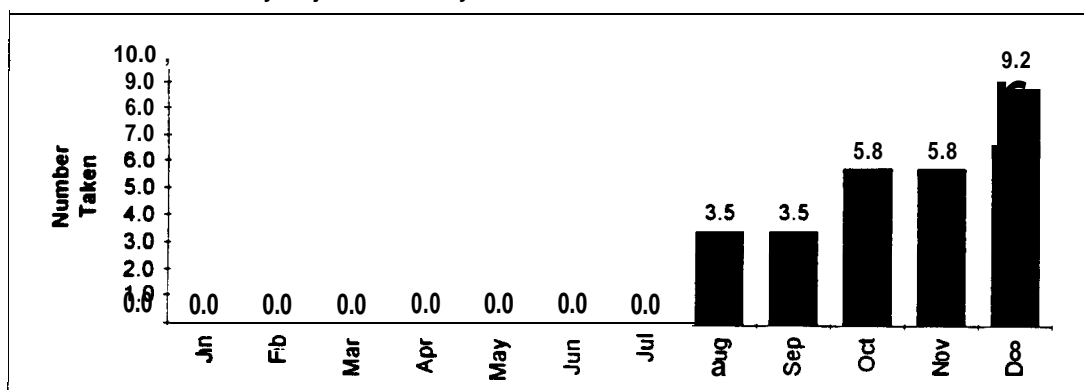
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the South Naknek Traditional Council, 1993.



## NORTH BRISTOL BAY

**TABLE 115. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: ALEKNAGIK, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	39
Surveyed Households	30
Sampling Fraction	76.9%
Sample Household Members	109
Estimated Household Members	141.7

**SEA LION HARVEST AND USE INFORMATION**

*Percent Of Native Households:*  
*used 0.0%*

Hunted 0.0%  
Harvested 0.0%  
Received 0.0%  
Gave Away 0.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 0.0  
Total Number Struck and Lost 0.0  
Total Number Taken 0.0  
Number Harvested Per Capita 0.00

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST MD TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (W)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%

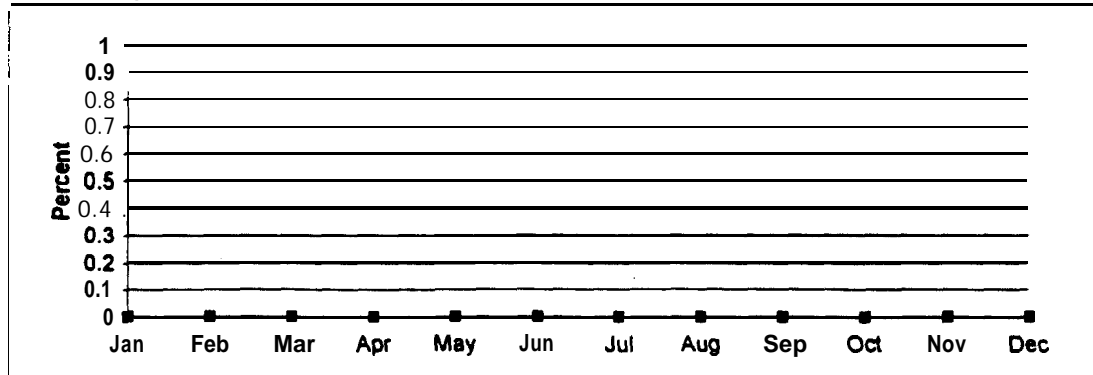
**SEA LION HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	--
Adult Female	0	--	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	--
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	--
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

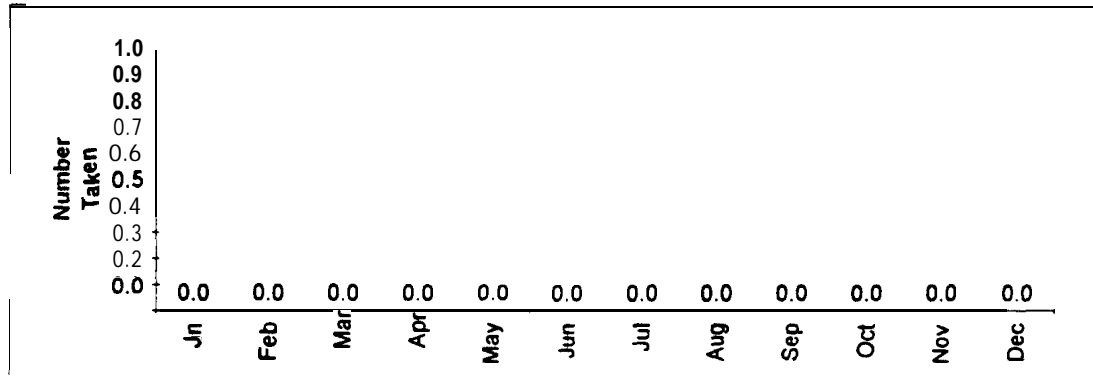
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1993.

FIGURE 115. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: ALEKNAGIK, 1992

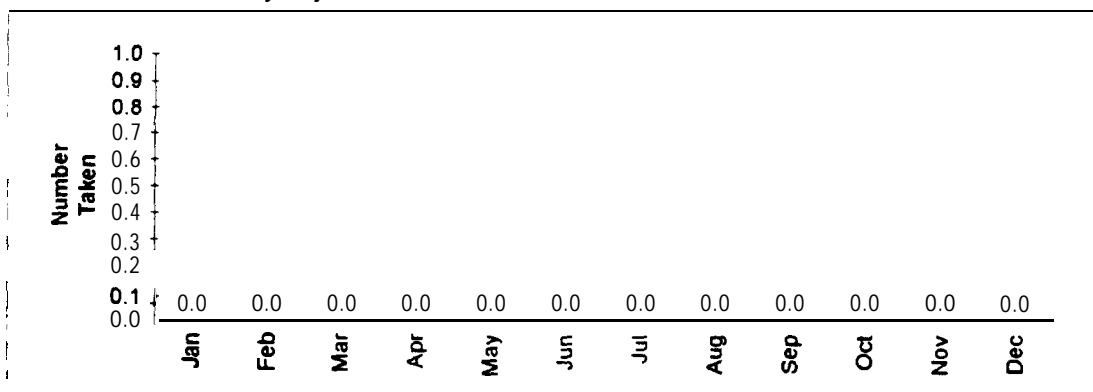
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1993.

**TABLE 116. HARBOR SEAL AND SPOTTED SEAL HARVEST AND TAKE ESTIMATES: ALEKNAGIK, 1992**

*SAMPLING DESIGN: CENSUS*

Total Native Households	39
Surveyed Households	30
Sampling Fraction	76.9%
Sample Household Members	109
Estimated Household Members	141.7

**HARBOR SEAL HARVEST AND USE INFORMATION**

Percent Of Native Households:  
 used 93.3%  
 Hunted 46.7%  
 Harvested 23.3%  
 Received 76.7%  
 Gave Away 20.0%

Estimated Community Harvest and Take (Expanded):  
 Total Number Harvested 28.6  
 Total Number Struck and Lost 9.1  
 Total Number Taken 37.7  
 Number Harvested Per Capita 0.20

HARBOR SEAL HARVEST BY SEASON													Unknown	1
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	13	9	0	0	0	0	0	0	0	0	22
Struck and Lost	0	0	0	1	2	1	0	1	0	0	0	0	2	7
Total Take	0	0	0	14	11	1	0	1	0	0	0	0	2	29
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	16.9	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6
Struck and Lost	0.0	0.0	0.0	1.3	2.6	1.3	0.0	1.3	0.0	0.0	0.0	0.0	2.6	9.1
Total Take	0.0	0.0	0.0	18.2	14.3	1.3	0.0	1.3	0.0	0.0	0.0	0.0	2.6	37.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	16.9	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		26.6
Struck and Lost	0.0	0.0	0.0	1.6	3.6	1.8	0.0	1.6	0.0	0.0	0.0	0.0		9.1
Total Take	0.0	0.0	0.0	18.7	15.3	1.8	0.0	1.8	0.0	0.0	0.0	0.0		37.7
Total Take (X)	0.0%	0.0%	0.0%	49.7%	40.7%	4.8%	0.0%	4.6%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	18.7	34.4	36.9	35.9	37.7	37.7	37.7	37.7	37.7		
Cum. Take (a)	0.0%	0.0%	0.0%	49.7%	90.3%	95.2%	95.2%	100.0%	100.0%	100.0%	100.0%	100.0%		

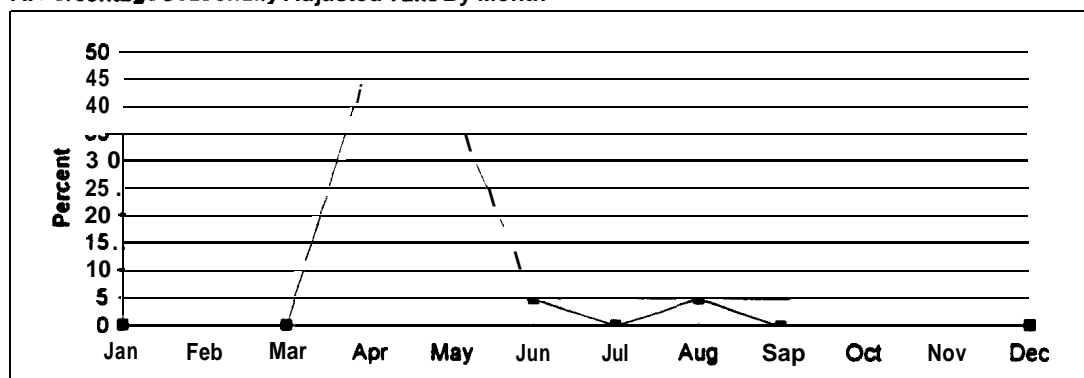
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample (Unexpanded)	Percent	By Community (Expanded)	Percent
Adult Male	1	4.5%	1.3	4.5%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	9	40.9%	11.7	40.9%
Juvenile Male	3	13.6%	3.9	13.6%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	9	40.9%	11.7	40.9%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	22	100.0%	28.6	100.0%

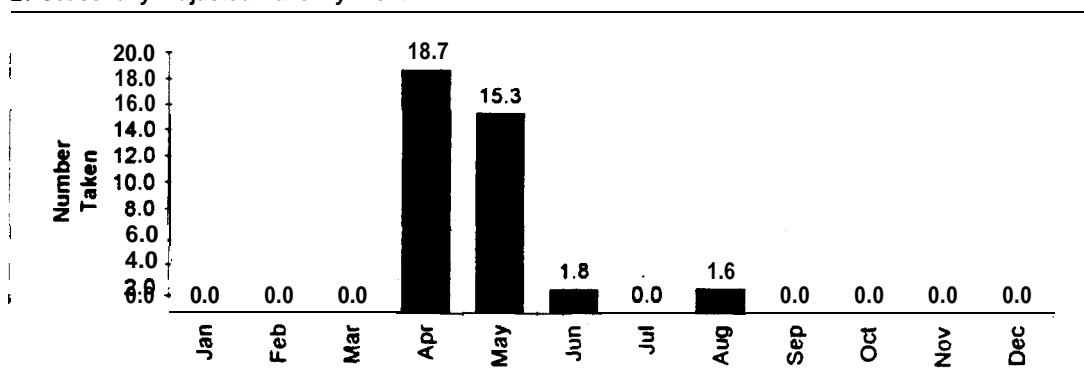
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council. 1993

FIGURE 116. HARBOR SEAL AND SPOTTED SEAL TAKE ESTIMATES: ALEKNAGIK, 1992

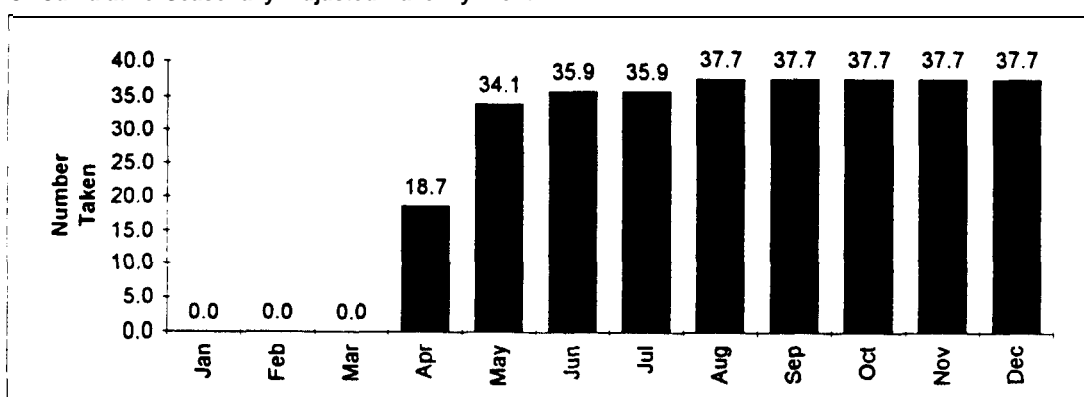
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1993.

TABLE 117. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: ALEKNAGIK, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	39
Surveyed Households	30
Sampling Fraction	76.9%
Sample Household Members	109
Estimated Household Members	141.7

## HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:

used 93.3%  
 Hunted 46.7%  
 Harvested 23.3%  
 Received 76.7%  
 Gave Away 20.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 0.0  
 Total Number Strunk and Lost 5.2  
 Total Number Taken 5.2  
 Number Harvested Per Capita 0.00

HARBOR SEAL HARVEST <i>BY</i> SEASON												Unknown	Total	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Month
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
&Nest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	1	0	1	0	0	0	0	1	3
Total Take	0	0	0	0	0	1	0	1	0	0	0	0	1	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck end Lost	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	0.0	0.0	0.0	0.0	2.6	5.2
Total Take	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	0.0	0.0	0.0	0.0	2.6	5.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck end Lost	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.6	0.0	0.0	0.0	0.0		5.2
Total Teke	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.6	0.0	0.0	0.0	0.0		5.2
Total Teke (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	2.6	2.6	5.2	5.2	5.2	5.2	5.2		
Cum. Teke (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

## HARBOR SEAL HARVEST BY AGE AND SEX

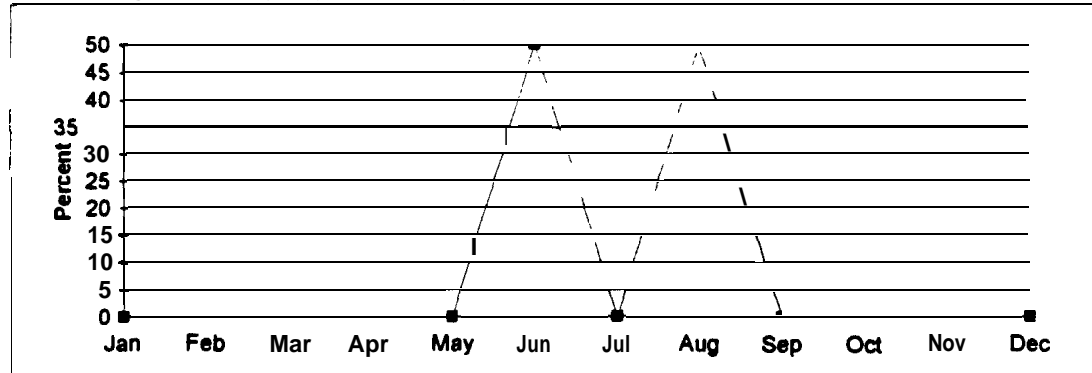
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

SOURCE: Alaska Department of Fish and Game, Division 01 Subsistence, Subsistence Study  
 and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from  
 the Aleknagik Tribal Council, IQQ3.

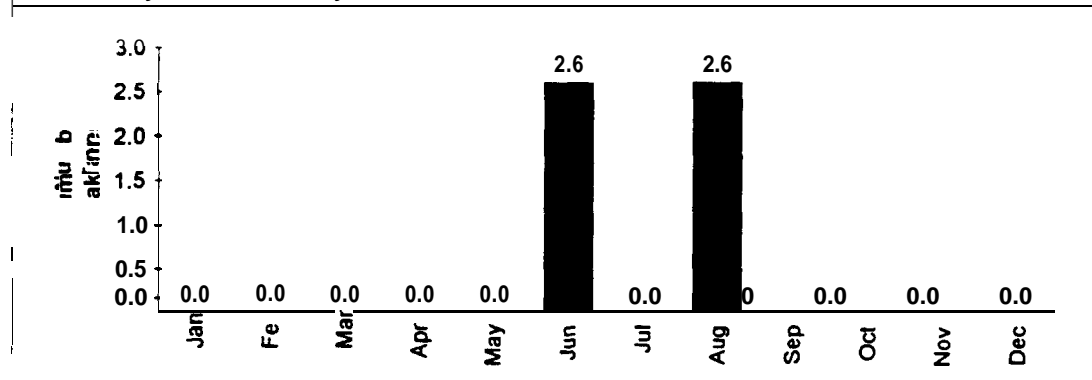


FIGURE 117. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: ALEKNAGIK, 1992

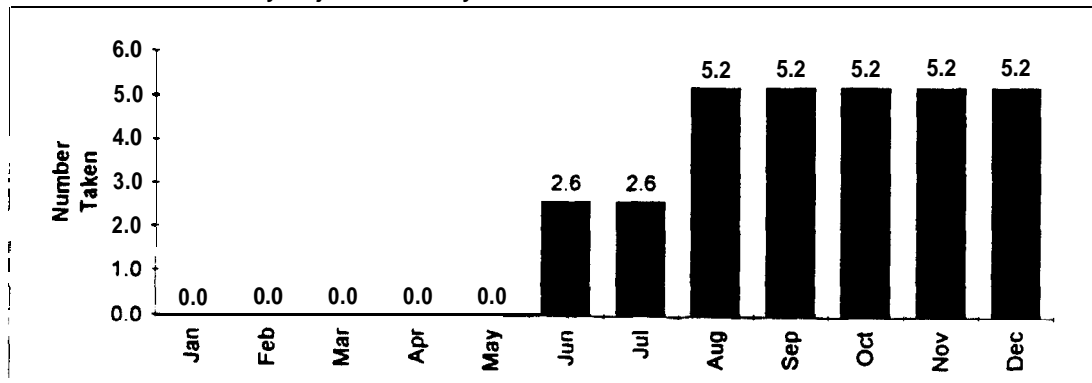
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1993.

TABLE 118. SPOTTED SEAL (*Phoca largha*) HARVEST AND TAKE ESTIMATES: ALEKNAGIK, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	39
Surveyed Households	30
Sampling Fraction	76.9%
Sample Household Memben	109
Estimated Household Members	141.7

## SPOTTED SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:  
 used 93.3%  
 Hunted 46.7%  
 Harvested 23.3%  
 Received 76.7%  
 Gave Away 20.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	28.6
Total Number Struck and Lost	6.5
Total Number Taken	35.1
Number Harvested Per Capita	0.20

SPOTTED SEAL HARVEST <i>BY</i> SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	13	9	0	0	0	0	0	0	0	0	22
Struck and Lost	0	0	0	1	2	0	0	0	0	0	0	0	1	4
Total Take	0	0	0	14	11	0	0	0	0	0	0	0	1	26
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	16.9	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.6
Struck end Lost	0.0	0.0	0.0	1.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.5
Total Take	0.0	0.0	0.0	16.2	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	35.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	16.9	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		26.6
Struck end Lost	0.0	0.0	0.0	2.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		6.5
Total Take	0.0	0.0	0.0	19.1	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		35.1
Total Take (%)	0.0%	0.0%	0.0%	64.3%	45.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	19.1	36.1	35.1	35.1	35.1	35.1	36.1	35.1	35.1		
Cum. Take (%)	0.0%	0.0%	0.0%	54.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

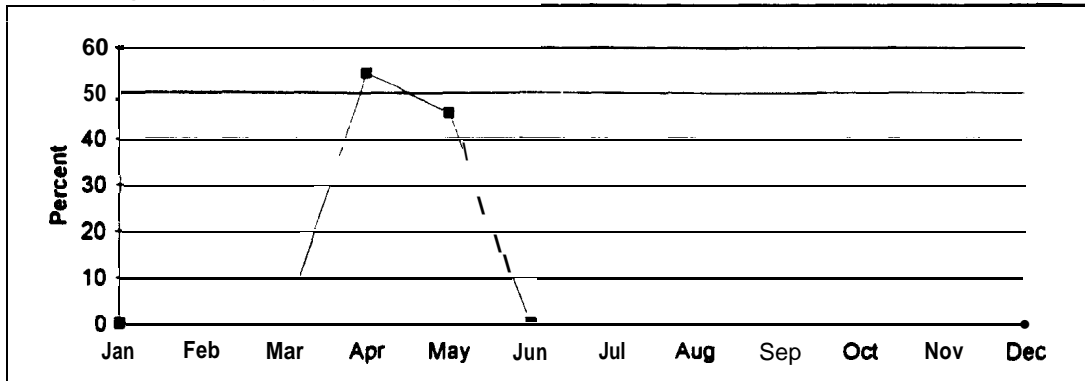
## SPOTTED SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpended)		(Expended)	
Adult Male	1	4.5%	1.3	4.5%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	9	40.9%	11.7	40.9%
Juvenile Male	3	13.6%	3.9	13.6%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	9	40.9%	11.7	40.9%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	22	100.0%	28.6	100.0%

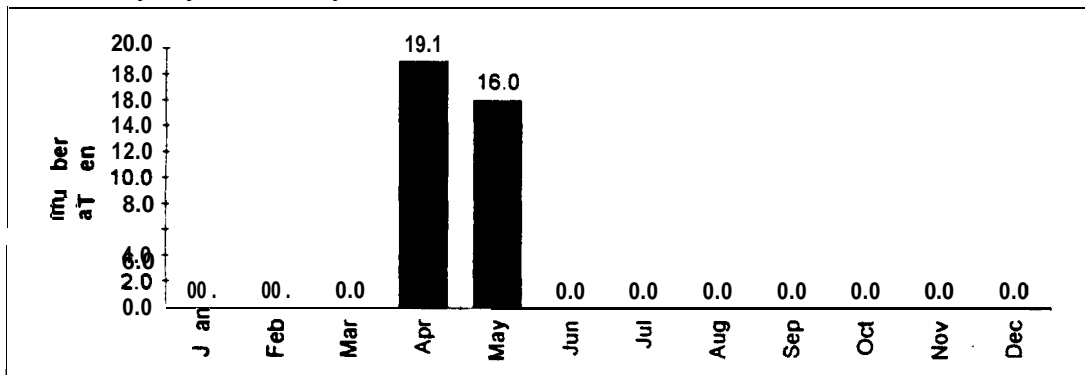
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1993.

FIGURE 118. SPOTTED SEAL (*Phoca largha*) TAKE ESTIMATES: ALEKNAGIK, 1992

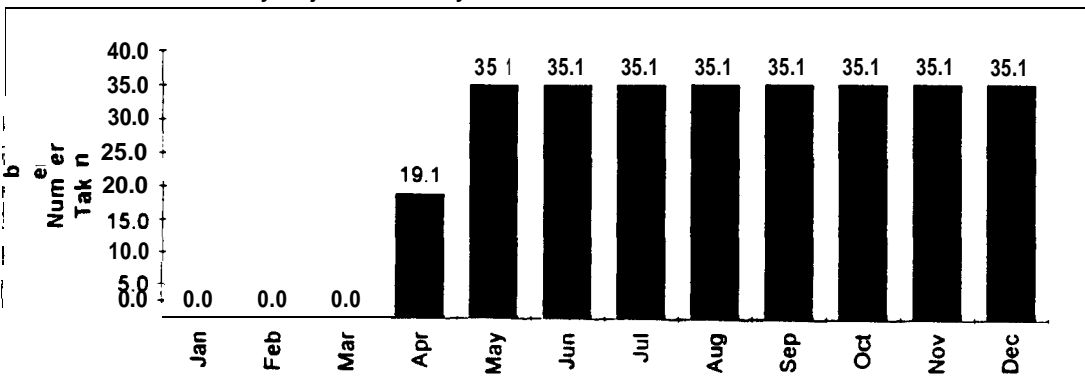
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 1993.

**TABLE 119. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: CLARK'S POINT, 1992**

SAMPLING DESIGN: CENSUS

Total Native Households	18
Surveyed Households	17
Sampling Fraction	94.4%
Sample Household Members	52
Estimated Household Memben	55.1

SEA LION HARVEST AND USE INFORMATION

**Percent Of Native Households:**

Used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON

	Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	ocl	Nov	Dec	Unknown Month	TOW
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (lb)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

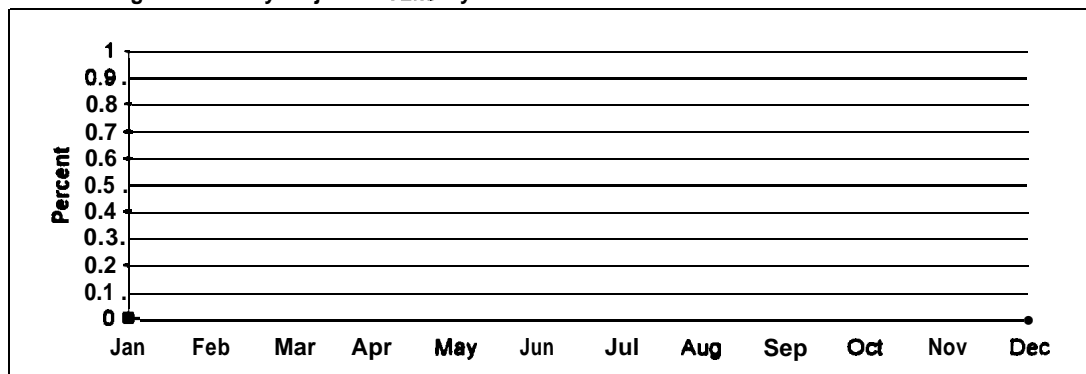
SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	--	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	--	0.0	---
Pup Female	0	--	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	--	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	--	0.0	---
Total	0	---	0.0	---

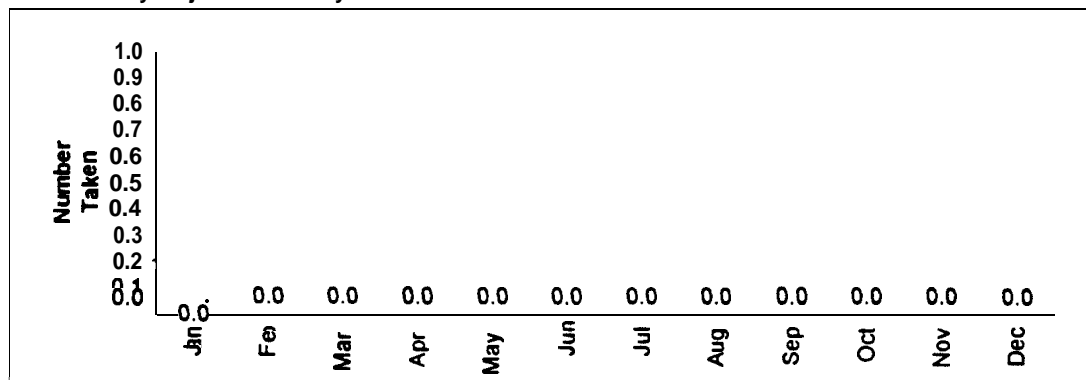
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1993.

FIGURE 119. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: CLARK'S POINT, 1992

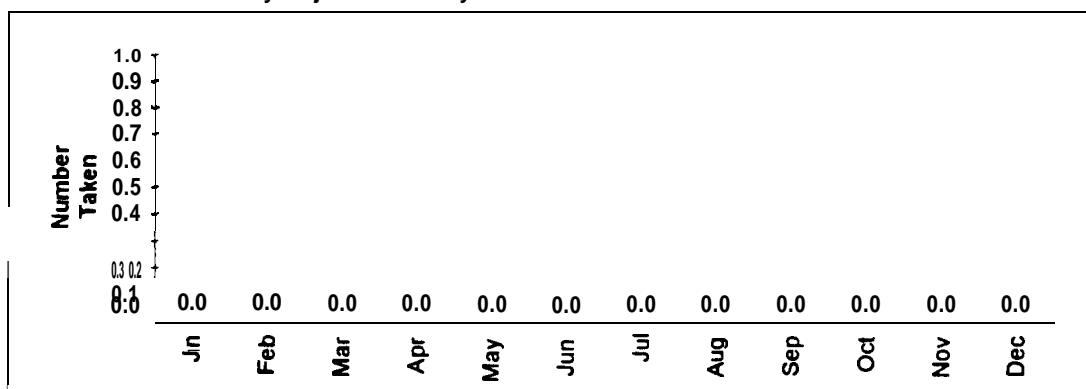
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1993.

TABLE 120. HARBOR SEAL AND SPOT-TED SEAL HARVEST AND TAKE ESTIMATES: CLARK'S POINT, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	18
Surveyed Households	17
Sampling Fraction	94.4%
Sample Household Members	52
Estimated Household Members	55.1

## HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of **Native** Households:  
 used 52.9%  
 Hunted 35.3%  
 Harvested 23.5%  
 Received 47.1%  
 Gave Away 41.2%

Estimated Community **Harvest and Take** (Expanded):  
 Total Number Harvested 10.6  
 Total Number Struck and Lost 8.5  
 Total Number Taken 19.1  
 Number Harvested Per Capita 0.19

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	1	7	0	0	0	0	0	0	0	0	0	10
Struck and Lost	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Total Take	0	2	1	15	0	0	0	0	0	0	0	0	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.1	1.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6
Struck and Lost	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5
Total Take	0.0	2.1	1.1	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.1	1.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		10.6
Struck and Lost	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		8.5
Total Take	0.0	2.1	1.1	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		19.1
Total Take (%)	0.0%	11.1%	5.6%	83.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	2.1	3.2	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1		
Cum. Take (%)	0.0%	11.1%	16.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

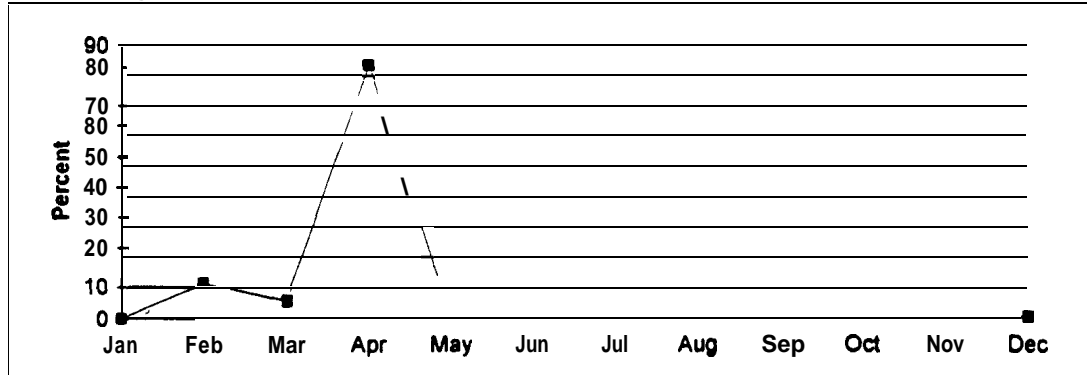
## HARBOR SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	10.0%	1.1	10.0%
Adult Female	1	10.0%	1.1	10.0%
Adult Unknown Sex	7	70.0%	7.4	70.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	10.0%	1.1	10.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	10	100.0%	10.8	100.0%

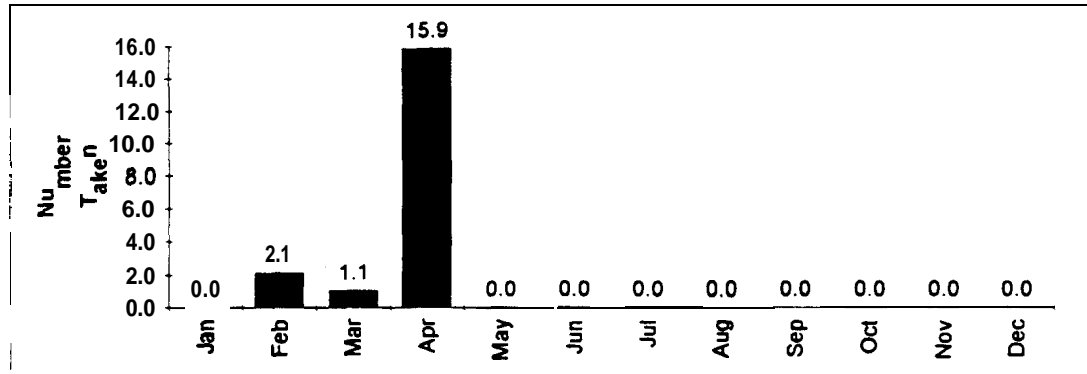
SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's point Traditional Council. 1993.

FIGURE 120. HARBOR SEAL AND SPOTTED SEAL TAKE ESTIMATES: CLARK'S POINT, 1992

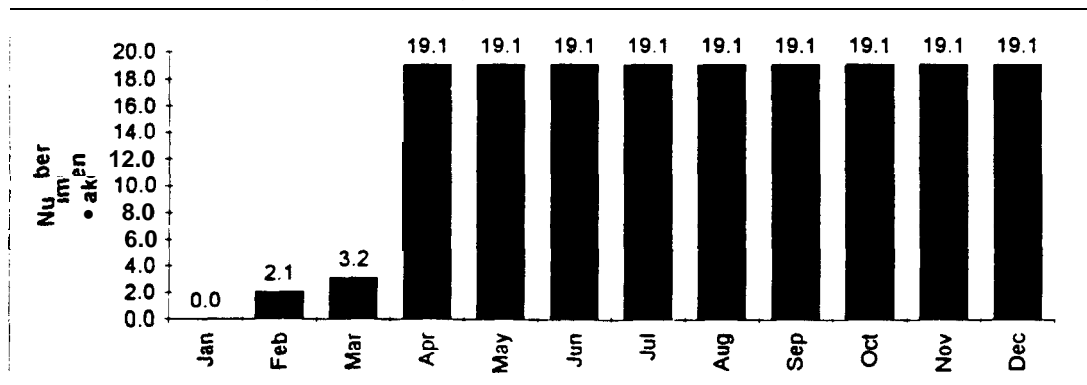
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1993.

TABLE 121. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: CLARK'S POINT, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	18
Surveyed Households	17
Sampling Fraction	94.4%
Sample Household Members	52
Estimated Household Members	55.1

## HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:

Used 52.9%  
 Hunted 35.3%  
 Harvested 23.5%  
 Received 47.1%  
 Gave Away 41.2%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 0.0  
 Total Number Struck and Lost 0.0  
 Total Number Taken 0.0  
 Number Harvested Per Capita 0.00

HARBOR SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

## HARBOR SEAL HARVEST BY AGE AND SEX

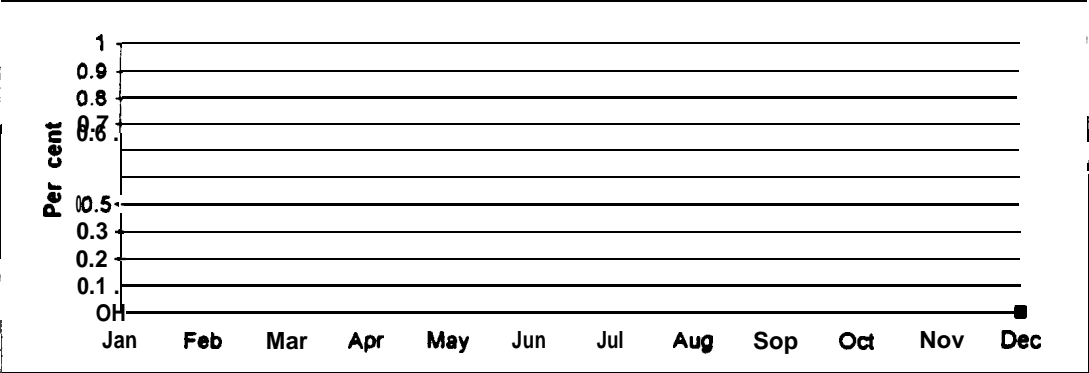
	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---
Juvenile Male	0	---	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	---
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	---	0.0	---

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1993.

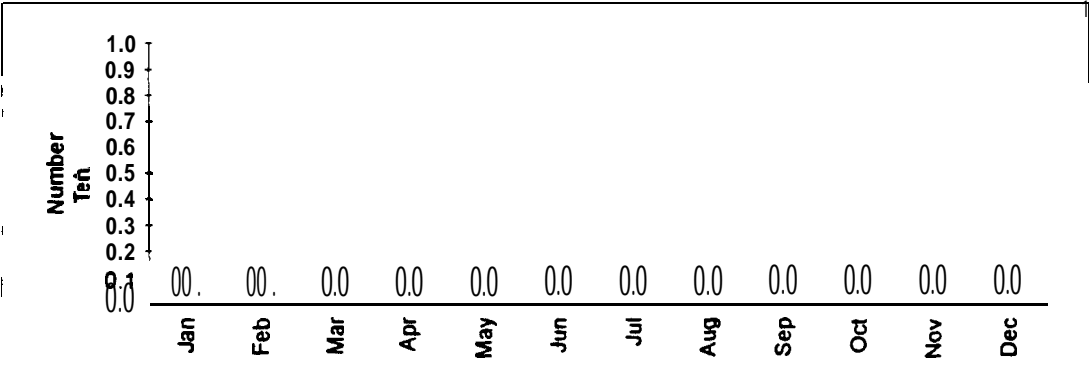


FIGURE 121. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: CLARK'S POINT, 1992

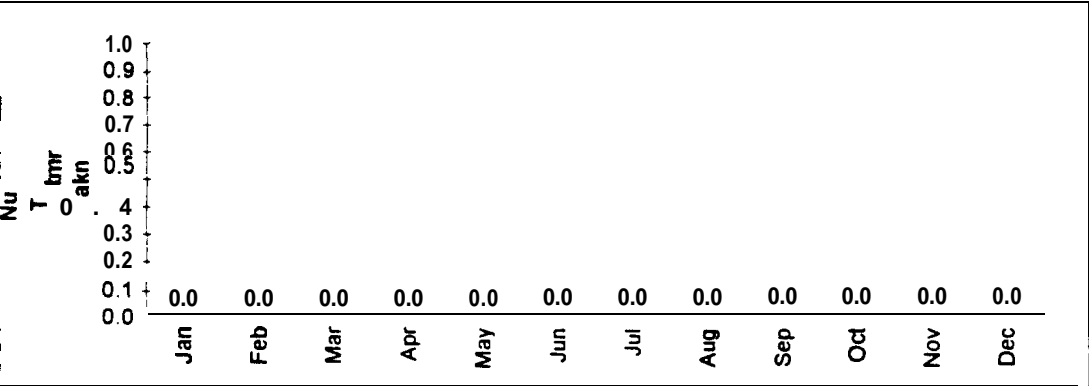
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1993.

TABLE 122. SPOTTED SEAL (*Phoca largha*) HARVEST AND TAKE ESTIMATES: CLARK'S POINT, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	16
Surveyed Households	17
Sampling Fraction	94.4%
Sample Household Members	52
Estimated Household Members	55.1

## SPOTTED SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:

Used 52.9%  
 Hunted 35.3%  
 Harvested 23.5%  
 Received 47.1%  
 Gave Away 41.2%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 10.6  
 Total Number Struck and Lost 8.5  
 Total Number Taken 19.1  
 Number Harvested Per Capita 0.19

SPOTTED SEAL HARVEST BY SEASON													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	1	7	0	0	0	0	0	0	0	0	0	10
Struck and Lost	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Total Take	0	2	1	15	0	0	0	0	0	0	0	0	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.1	1.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6
Struck and Lost	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5
Total Take	0.0	2.1	1.1	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.1	1.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		10.6
Struck and Lost	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.5
Total Take	0.0	2.1	1.1	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		19.1
Total Take(%)	0.0%	11.1%	5.6%	83.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	2.1	3.2	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1		
Cum. Take(%)	0.0%	11.1%	16.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

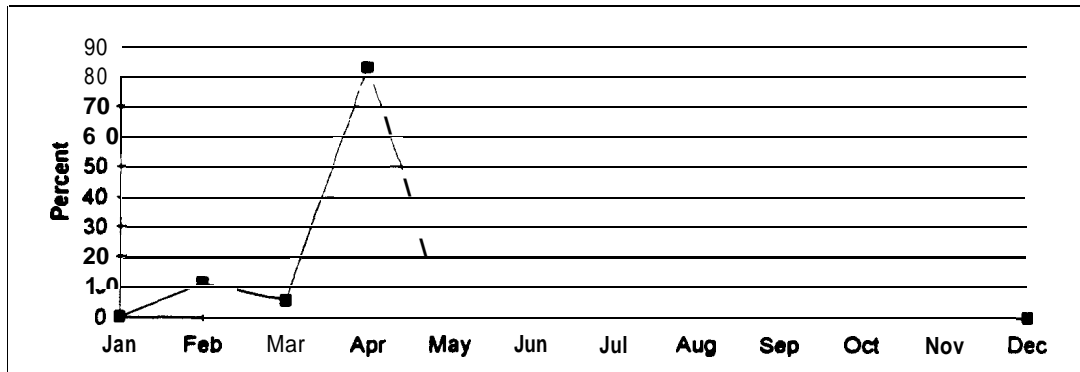
## SPOTTED SEAL HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	10.0%	1.1	10.0%
Adult Female	1	10.0%	1.1	10.0%
Adult Unknown Sex	7	70.0%	7.4	70.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	10.0%	1.1	10.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	10	100.0%	10.6	100.0%

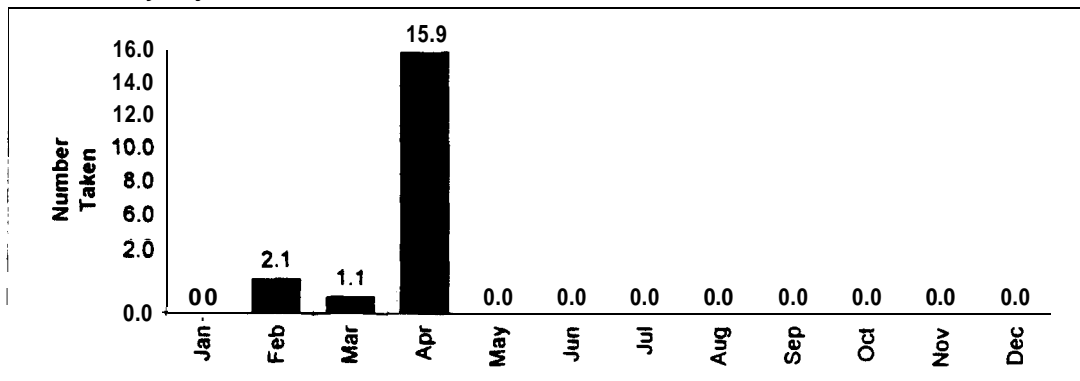
SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1993.

FIGURE 122. SPOTTED SEAL (*Phoca largha*) TAKE ESTIMATES: CLARK'S POINT, 1992

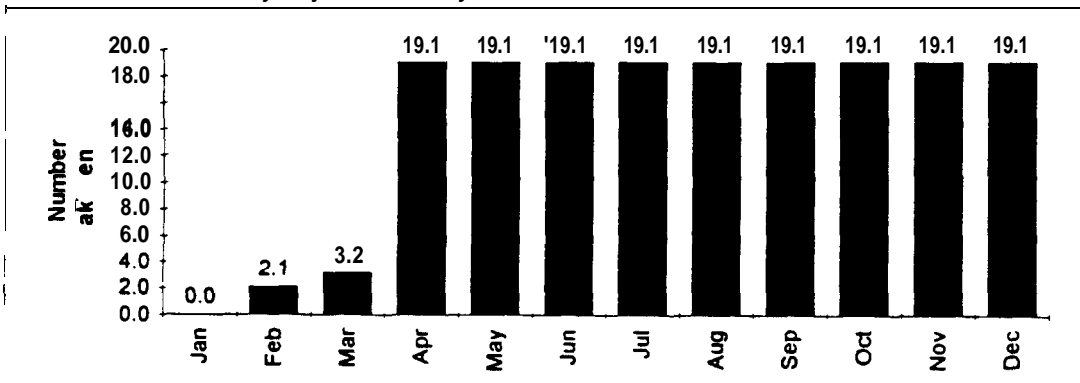
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 1993.

TABLE 123. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: DILLINGHAM, 1992

## SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Household	30	427	457
Surveyed Households	24	32	56
Sampling Fraction	80.0%	7.5%	12.3%
Sample Household Members	110	103	213
Estimated Household Members	137.5	1374.4	1511.9

## SEA LION HARVEST AND USE INFORMATION

## Percent Of Native Households:

Used	3.6%
Hunted	1.8%
Harvested	0.0%
Received	3.6%
Gave Away	1.6%

## Estimated Community Harvest and Take (Expanded):

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

## SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (a)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

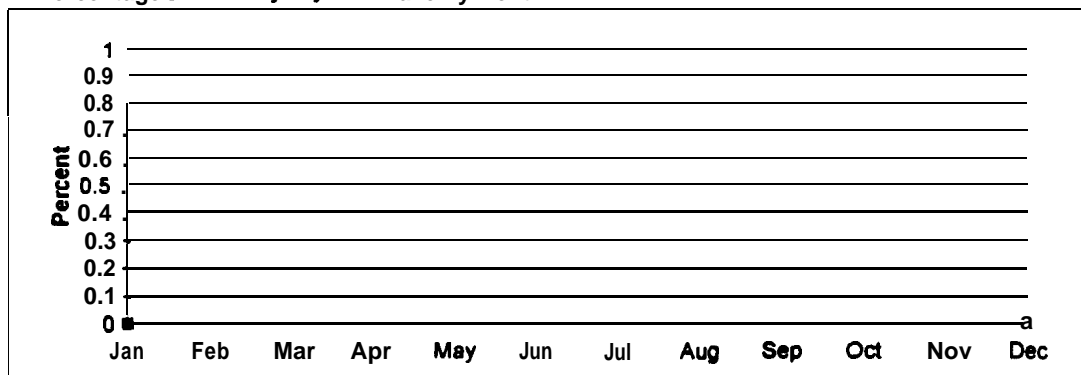
## SEA LION HARVEST BY AGE AND SEX

	Reported By Sample (Unexpanded)	Perwnt	Estimated By Community (Expanded)	Percent
Adult Male	0		0.0	---
Adult Female	0		0.0	--
Adult Unknown Sex	0	--	0.0	--
Juvenile Male	0		0.0	--
Juvenile Female	0	--	0.0	---
Juvenile Unknown Sex	0	---	0.0	---
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	--	0.0	---
Male Unknown Age	0	..-	0.0	---
Female Unknown Age	0	--	0.0	---
Unknown Sex and Age	0	--	0.0	---
Total	0	--	0.0	--

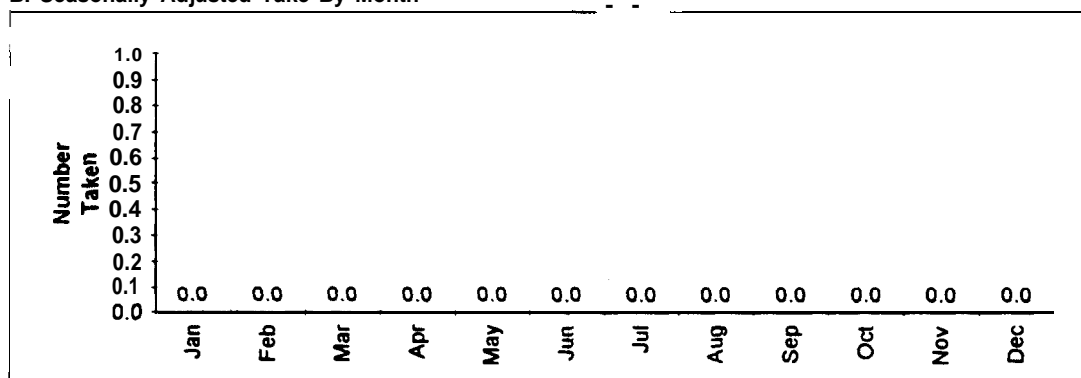
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1993.

FIGURE 123. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: DILLINGHAM, 1992

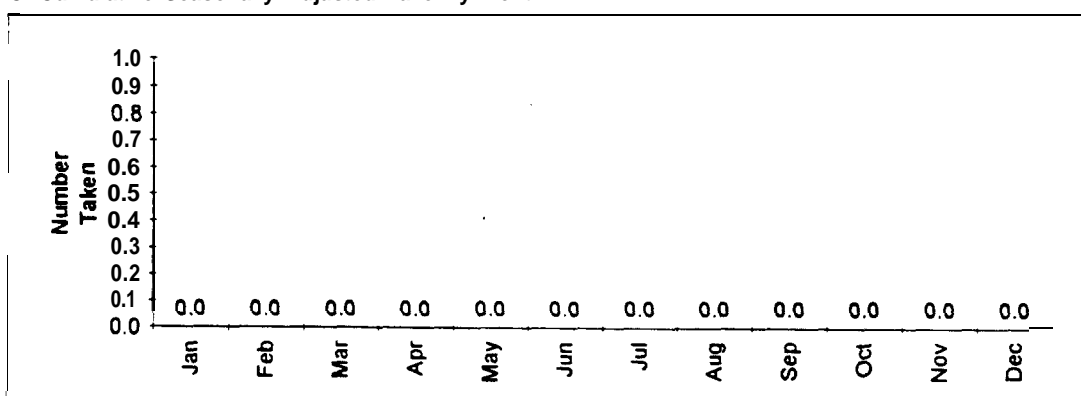
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1993.

**TABLE 124. HARBOR SEAL AND SPOTTED SEAL HARVEST AND TAKE ESTIMATES: DILLINGHAM, 1992**

*SAMPLING DESIGN: TWO STRATA*

	Active	Other	Total
Total Native Households	30	427	457
Surveyed Households	24	32	56
Sampling Fraction	80.0%	7.5%	12.3%
Sample Household Members	110	103	213
Estimated Household Members	137.5	1374.4	1511.9

*HARBOR SEAL HARVEST AND USE INFORMATION*

**Percent Of Native Households:**  
 used 00.4%  
 Hunted 41.1%  
 Harvested 25.0%  
 Received 71.4%  
 Gave Away 64.3%

**Estimated Community Harvest and Take (Expanded):**  
 Total Number Harvested 78.8  
 Total Number Struck and Lost 7.5  
 Total Number Taken 86.3  
 Number Harvested Per Capita 0.05

*HARBOR SEAL HARVEST BY SEASON*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	3	16	11	0	3	1	0	0	0	0	0	34
Struck and Lost	0	0	0	2	1	0	1	2	0	0	0	0	0	6
Total Take	0	0	3	10	12	0	4	3	0	0	0	0	0	40
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	3.8	20.0	25.0	0.0	27.9	1.3	0.0	0.0	0.0	0.0	0.0	70.0
Struck and Lost	0.0	0.0	0.0	2.5	1.3	0.0	1.3	2.5	0.0	0.0	0.0	0.0	0.0	7.5
Total Take	0.0	0.0	3.8	22.5	27.1	0.0	29.2	3.8	0.0	0.0	0.0	0.0	0.0	66.3
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	3.8	20.0	25.8	0.0	27.9	1.3	0.0	0.0	0.0	0.0		78.8
Struck and Lost	0.0	0.0	0.0	2.5	1.3	0.0	1.3	2.5	0.0	0.0	0.0	0.0		7.5
Total Take	0.0	0.0	3.8	22.5	27.1	0.0	29.2	3.0	0.0	0.0	0.0	0.0		66.3
Total Take (a)	0.0%	0.0%	4.3%	26.1%	31.4%	0.0%	33.8%	4.3%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	3.0	26.3	53.3	53.3	82.5	86.3	66.3	86.3	66.3	86.3		
Cum. Take (%)	0.0%	0.0%	4.3%	30.4%	61.8%	61.8%	95.7%	100.0%	100.0%	100.0%	100.0%	100.0%		

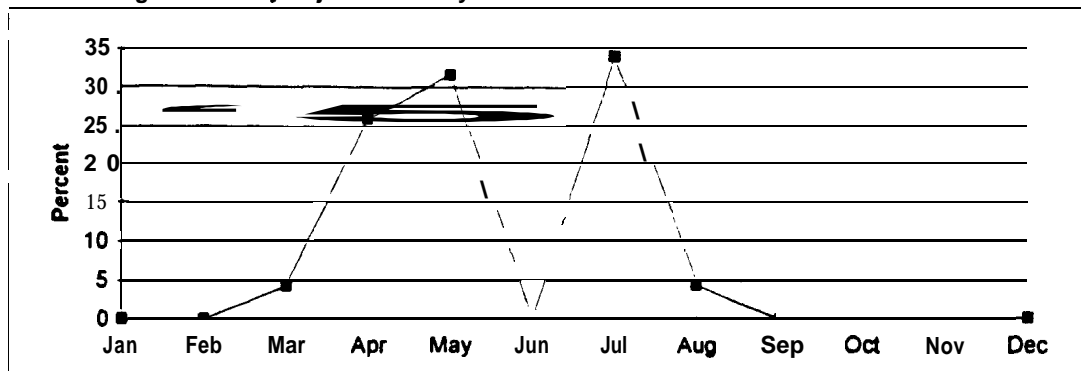
*HARBOR SEAL HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	2.9%	1.3	1.6%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	18	52.9%	46.7	59.3%
Juvenile Male	1	2.9%	1.3	1.6%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	10	29.4%	12.5	15.9%
Pup Male	1	2.9%	13.3	16.9%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	2	5.9%	2.5	3.2%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	2.9%	1.3	1.6%
Total	34	100.0%	78.8	100.0%

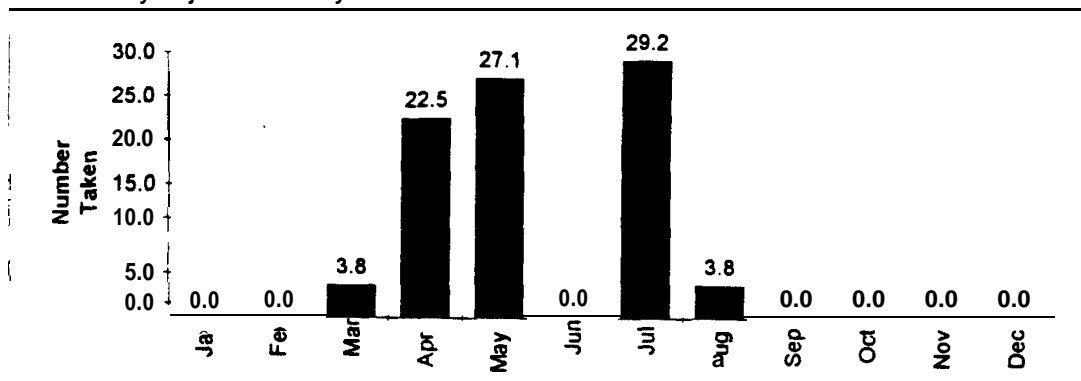
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council. 1993.

FIGURE 124. HARBOR SEAL AND SPOTTED SEAL TAKE ESTIMATES: DILLINGHAM, 1992

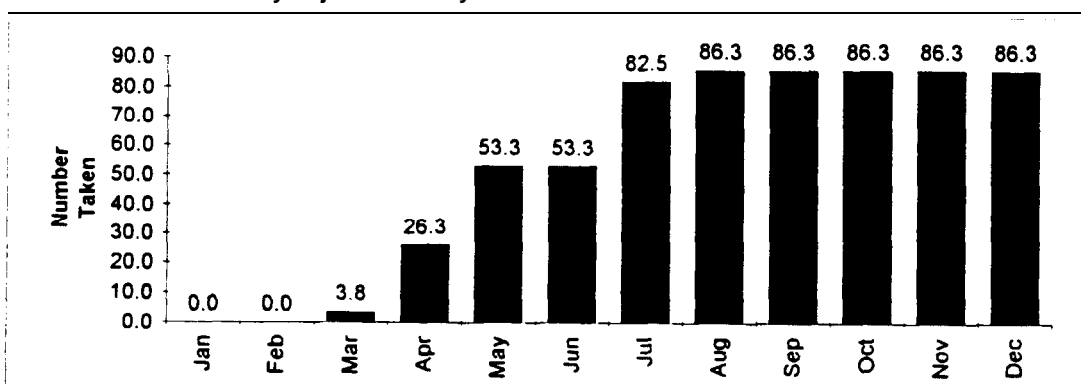
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department Of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1993.

TABLE 125. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: DILLINGHAM, 1992SAMPLING DESIGN: **TWO** STRATA

	Active	Other	Total
Total Native Households	30	427	457
Surveyed Households	24	32	56
Sampling Fraction	80.0%	7.5%	12.3%
Sample Household Members	110	103	213
Estimated Household Members	137.5	1374.4	1511.9

## HARBOR SEAL HARVEST AND USE INFORMATION

Percent **Of Native** Households:

Used 80.4%  
 Hunted 41.1%  
 Harvested 25.0%  
 Received 71.4%  
 Gave Away 64.3%

Estimated Community **Harvest** and Take (Expanded):

Total Number Harvested 29.2  
 Total Number Struck and Lost 3.6  
 Total Number Taken 32.9  
 Number Harvested Per Capita 0.02

## HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	3	1	0	0	0	0	0	4
Struck and Lost	0	0	0	0	0	0	1	2	0	0	0	0	0	3
Total Take	0	0	0	0	0	0	4	3	0	0	0	0	0	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	27.9	1.3	0.0	0.0	0.0	0.0	0.0	29.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5	0.0	0.0	0.0	0.0	0.0	3.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	29.2	3.8	0.0	0.0	0.0	0.0	0.0	32.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	27.9	1.3	0.0	0.0	0.0	0.0	0.0	29.2
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5	0.0	0.0	0.0	0.0	0.0	3.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	29.2	3.8	0.0	0.0	0.0	0.0	0.0	32.9
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.6%	11.4%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	0.0	29.2	32.9	32.9	32.9	32.9	32.9	32.9	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

## HARBOR SEAL HARVEST BY AGE AND SEX

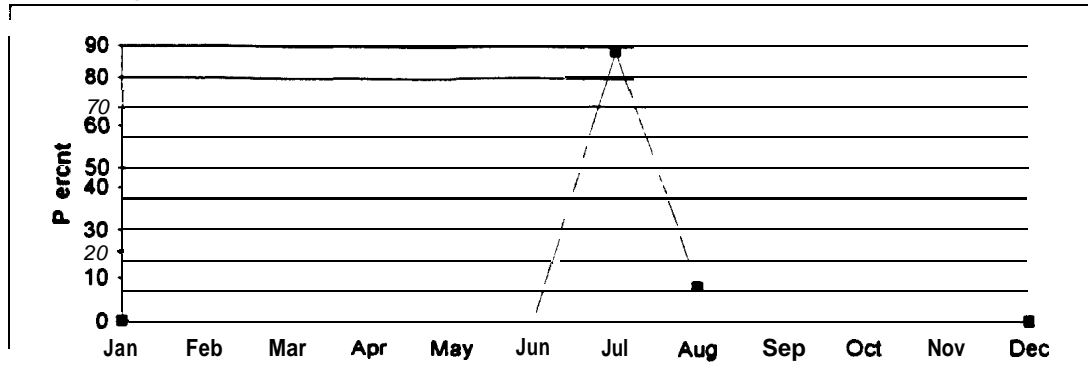
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	3	75.0%	27.9	95.7%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	25.0%	1.3	4.3%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	4	100.0%	29.2	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1993.

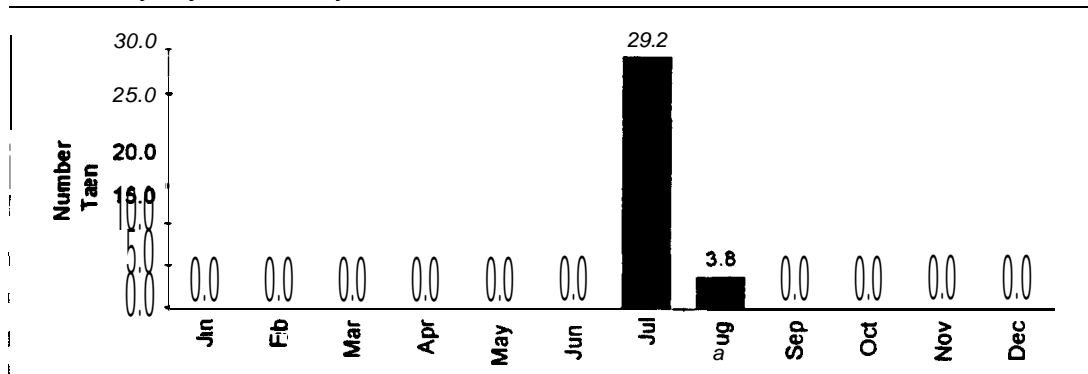


FIGURE 126. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: DILLINGHAM, 1992

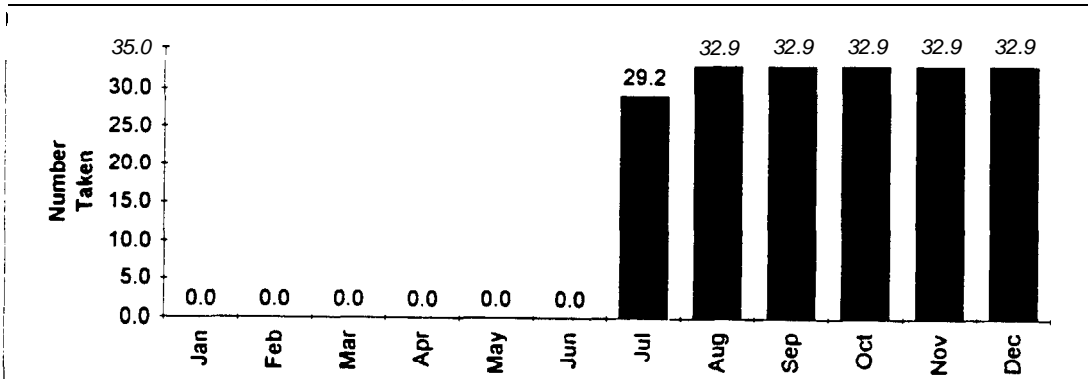
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1993.

**TABLE 126. SPOTTED SEAL (*Phoca largha*) HARVEST AND TAKE ESTIMATES: DILLINGHAM, 1992**

*SAMPLING DESIGN: TWO STRATA*

	Active	Other	Total
Total Native Households	30	427	457
Surveyed Households	24	32	56
Sampling Fraction	80.0%	7.5%	12.3%
Sample Household Members	110	103	213
Estimated Household Members	137.5	1374.4	1511.9

*SPOTTED SEAL HARVEST AND USE INFORMATION*

*Percent Of Native Households:*

Used 80.4%  
Hunted 41.1%  
Harvested 25.0%  
Received 71.4%  
Gave Away 64.3%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 49.8  
Total Number Struck and Lost 3.8  
Total Number Taken 53.3  
Number Harvested Per Capita 0.03

SPOTTED SEAL HARVEST BY SEASON													Unknown	Total
Jan	Fob	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	3	16	11	0	0	0	0	0	0	0	0	30
Struck and Lost	0	0	0	2	1	0	0	0	0	0	0	0	0	3
Total Take	0	0	3	16	12	0	0	0	0	0	0	0	0	33
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	3.8	20.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.6
Struck and Lost	0.0	0.0	0.0	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
Total Take	0.0	0.0	3.0	22.5	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	3.6	20.0	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.6
Struck and Lost	0.0	0.0	0.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
Total Take	0.0	0.0	3.8	22.5	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.3
Total Take (X)	0.0%	0.0%	7.0%	42.2%	50.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	0.0	3.6	26.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	
Cum. Take (%)	0.0%	0.0%	7.0%	49.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

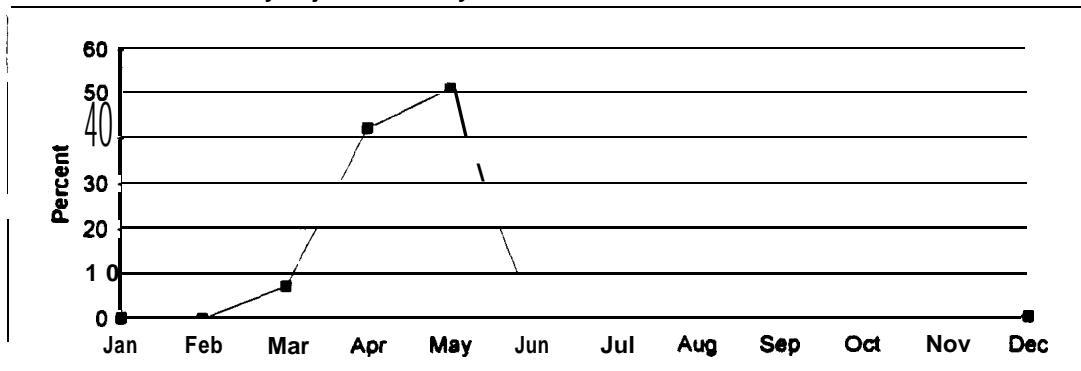
*SPOTTED SEAL HARVEST BY AGE AND SEX*

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	3.3%	1.3	2.5%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	15	50.0%	18.8	37.8%
Juvenile Male	1	3.3%	1.3	2.5%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	9	30.0%	11.3	22.7%
Pup Male	1	3.3%	13.3	26.9%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	2	6.7%	2.5	5.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	3.3%	1.3	2.5%
Total	30	100.0%	49.6	100.0%

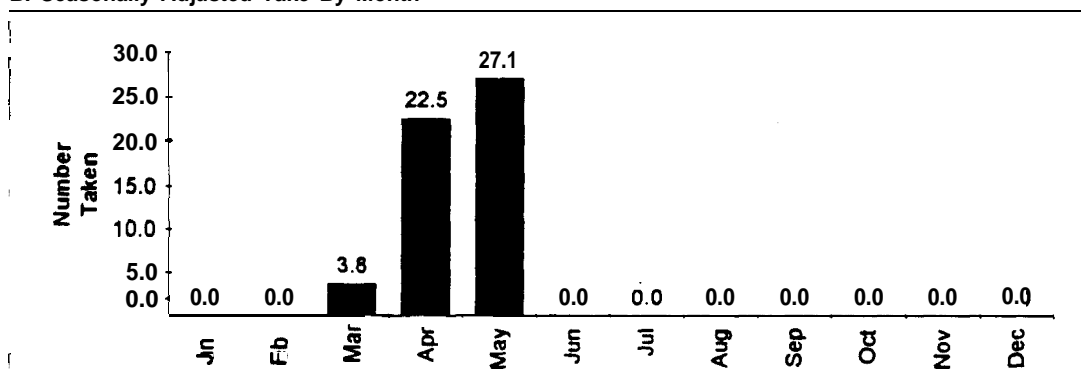
**SOURCE:** Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1993.

FIGURE 126. SPOTTED SEAL (*Phoca largha*) TAKE ESTIMATES: DILLINGHAM, 1992

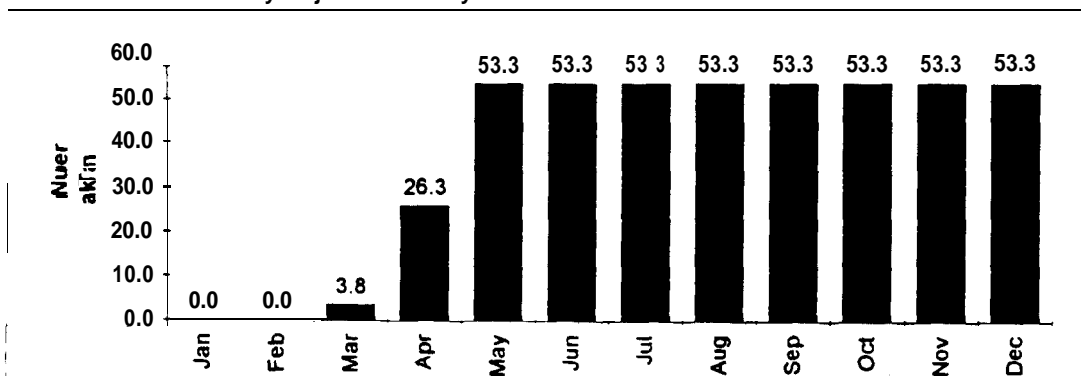
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 1993

TABLE 127. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: MANOKOTAK, 1992

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	20	57	77
Surveyed Households	20	30	50
Sampling Fraction	100.0%	52.6%	64.9%
Sample Household Members	93	144	237
Estimated Household Members	93.0	273.6	366.6

## SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:

used 56.0%  
Hunted 10.0%  
Harvested 4.0%  
Received 56.0%  
Gave Away 14.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 3.9  
Total Number Struck and Lost 0.0  
Total Number Taken 3.9  
Number Harvested Per Capita 0.01

## SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	2	0	0	0	0	0	0	0	0	3
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	1	2	0	0	0	0	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	1.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	1.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3.9
Total Take (%)	0.0%	0.0%	0.0%	25.6%	74.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	1.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9		
Cum. Take (%)	0.0%	0.0%	0.0%	25.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

## SEA LION HARVEST BY AGE AND SEX

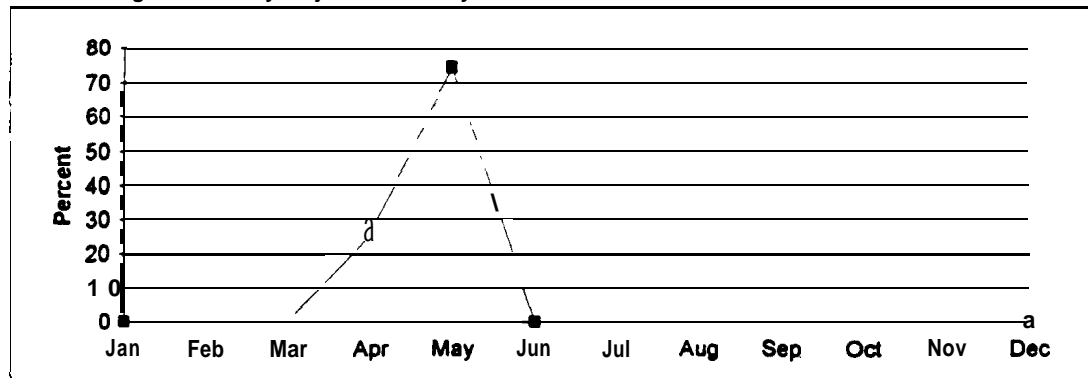
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	1	33.3%	1.0	25.6%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	1	33.3%	1.9	46.7%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	1	33.3%	1.0	25.6%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	3	100.0%	3.9	100.0%

SOURCE:

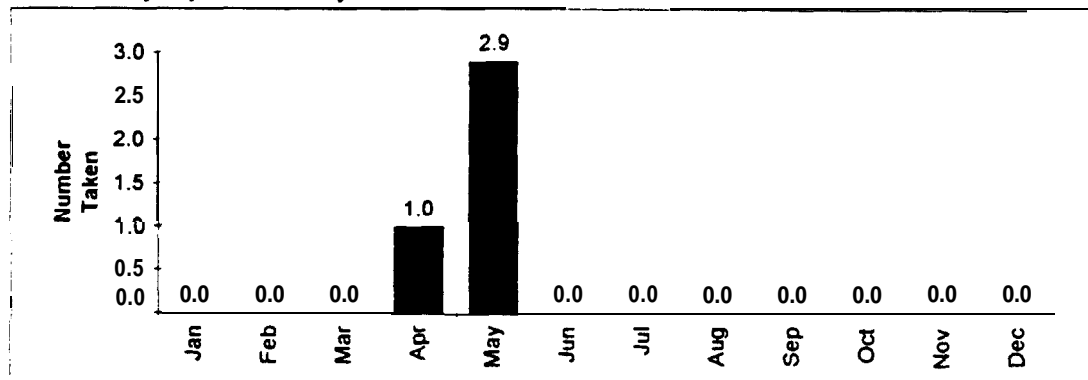
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council. 1993.

FIGURE 127. SEALION(*Eumetopias jubatus*) TAKE ESTIMATES: MANOKOTAK, 1992

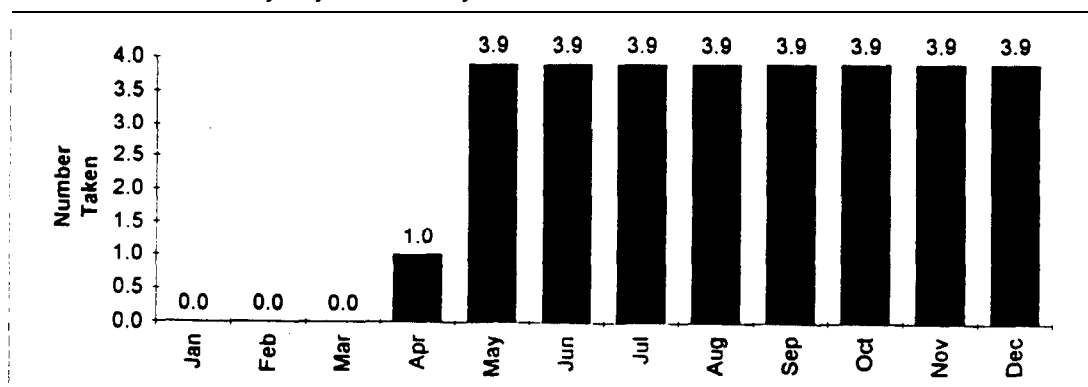
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game. Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1993.

**TABLE 128. HARBOR SEAL AND SPOTTED SEAL HARVEST AND TAKE ESTIMATES: MANOKOTAK, 1992**

*SAMPLING DESIGN: TWO STRATA*

	Active	Other	Total
Total Native Households	20	57	77
Surveyed Households	20	30	50
Sampling Fraction	100.0%	52.6%	64.9%
Sample Household Members	93	144	237
Estimated Household Members	93.0	273.6	366.6

**HARBOR SEAL HARVEST AND USE INFORMATION**

Percent Of Native **Households:**  
 used **98.0%**  
 Hunted **44.0%**  
 Harvested **20.0%**  
 Received **96.0%**  
 Gave Away **38.0%**

Estimated Community **Harvest and Take (Expanded):**  
 Total Number Harvested **30.0**  
 Total Number Struck and Lost **4.8**  
 Total Number Taken **34.0**  
 Number Harvested Per **Capita** **0.08**

<b>HARBOR SEAL HARVEST BY SEASON</b>														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>															
Harvest	0	1	0	11	5	3	0	0	1	0	0	0	0	21	
Struck and Lost	0	0	0	1	0	0	0	1	1	0	0	0	0	3	
Total Take	0	1	0	12	5	3	0	1	2	0	0	0	0	24	
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (WPANDED)</b>															
Harvest	0.0	1.0	0.0	18.2	5.9	3.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	30.0	
Struck and Lost	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.9	1.9	0.0	0.0	0.0	0.0	4.0	
Total Take	0.0	1.0	0.0	19.2	5.9	3.0	0.0	1.9	3.8	0.0	0.0	0.0	0.0	34.0	
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>															
Harvest	0.0	1.0	0.0	18.2	5.9	3.0	0.0	0.0	1.9	0.0	0.0	0.0		30.0	
Struck and Lost	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.9	1.9	0.0	0.0	0.0		4.0	
Total Take	0.0	1.0	0.0	19.2	5.9	3.0	0.0	1.9	3.8	0.0	0.0	0.0		34.8	
Total Take (X)	0.0%	2.9%	0.0%	55.2%	17.0%	0.6%	0.0%	5.5%	10.9%	0.0%	0.0%	0.0%		100%	
Cumulative Take	0.0	1.0	1.0	20.2	26.1	29.1	29.1	31.0	34.0	34.0	34.0	34.0			
Cum. Take (%)	0.0%	2.9%	2.9%	50.0%	75.0%	83.6%	83.6%	89.1%	100.0%	100.0%	100.0%	100.0%			

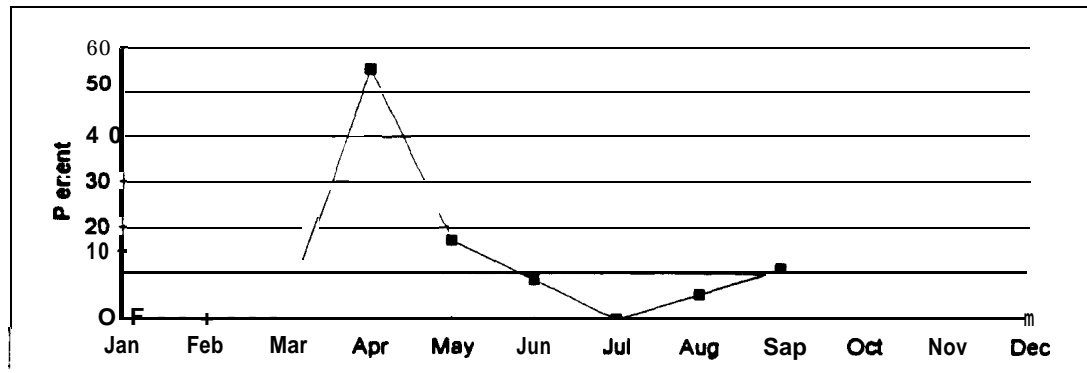
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	3	14.3%	3.0	10.0%
Adult Female	1	4.8%	1.0	3.3%
Adult Unknown Sex	11	52.4%	18.2	60.7%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	9.5%	2.0	6.7%
Pup Male	2	9.5%	2.0	6.7%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	4.0%	1.9	6.3%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	4.0%	1.9	6.3%
Total	21	100.0%	30.0	100.0%

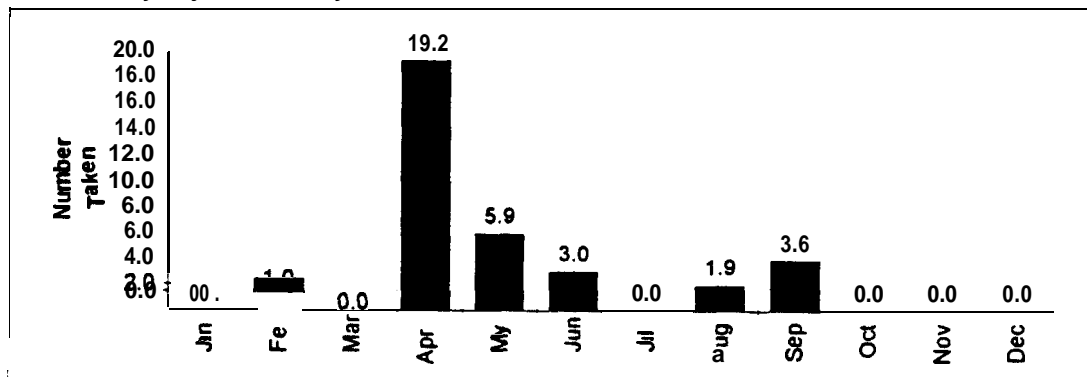
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1993.

**FIGURE 128. HARBOR SEAL AND SPOTTED SEAL TAKE ESTIMATES: MANOKOTAK, 1992**

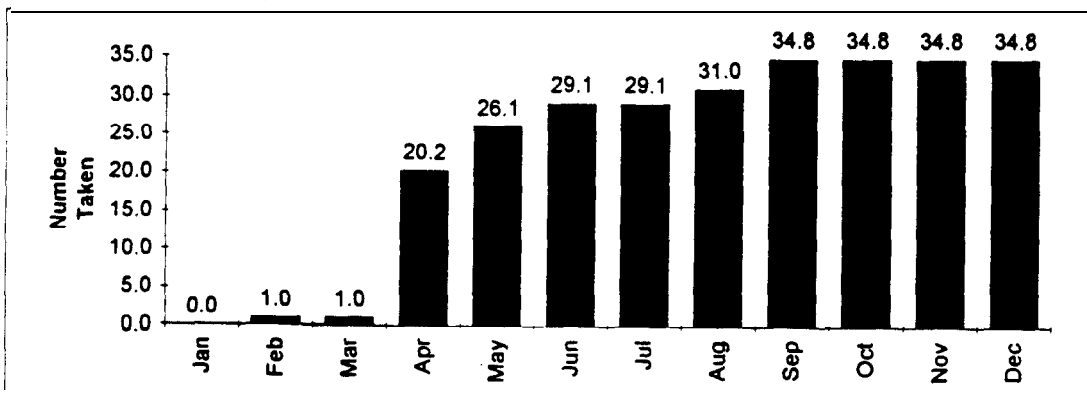
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1993.

TABLE 129. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: MANOKOTAK, 1992

## SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	20	57	77
Surveyed Households	20	30	50
Sampling Fraction	100.0%	52.6%	64.9%
Sample Household Members	93	144	237
Estimated Household Members	93.0	273.6	306.6

## HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of **Native** Households:

Used 98.0%  
 Hunted 44.0%  
 Harvested 20.0%  
 Received 96.0%  
 Gave Away 38.0%

Estimated Community **Harvest** and Take (Expanded):

Total Number Harvested 4.9  
 Total Number Struck and Lost 3.8  
 Total Number Taken 8.7  
 Number Harvested Per Capita 0.01

HARBOR SEAL HARVEST BY SEASON														Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	NW	Dec	Month	Total	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	0	3	0	0	1	0	0	0	0	4	
Struck and Lost	0	0	0	0	0	0	0	1	1	0	0	0	0	2	
Total Take	0	0	0	0	0	3	0	1	2	0	0	0	0	6	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	4.8	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.0	0.0	0.0	0.0	0.0	3.8	
Total Take	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.9	3.8	0.0	0.0	0.0	0.0	0.7	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	4.9	
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.9	0.0	0.0	0.0	0.0	3.8	
Total Take	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.9	3.0	0.0	0.0	0.0	0.0	0.7	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	34.5%	0.0%	21.9%	43.7%	0.0%	0.0%	0.0%	0.0%	100%	
Cumulative Take	0.0	0.0	0.0	0.0	0.0	3.0	3.0	4.9	0.7	9.7	0.7	0.7	0.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	34.5%	34.5%	56.3%	100.0%	100.0%	100.0%	100.0%	100.0%		

## HARBOR SEAL HARVEST BY AGE AND SEX

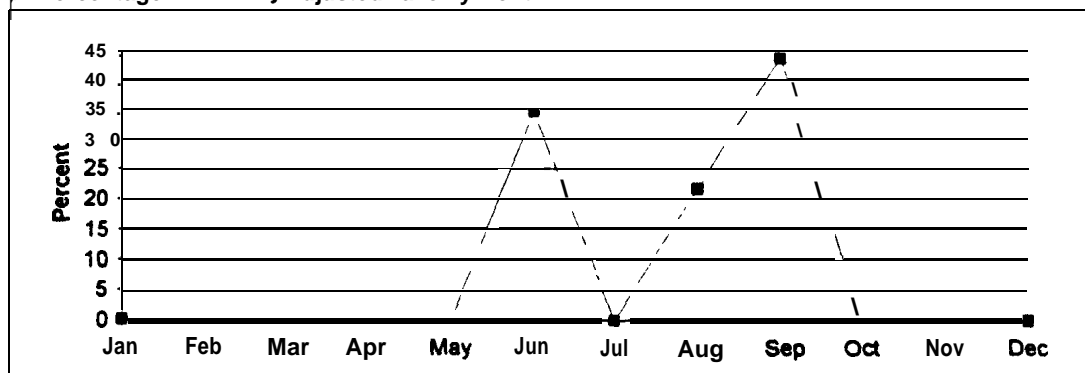
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	3	75.0%	3.0	61.2%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	25.0%	1.9	38.8%
Total	4	100.0%	4.9	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1993.

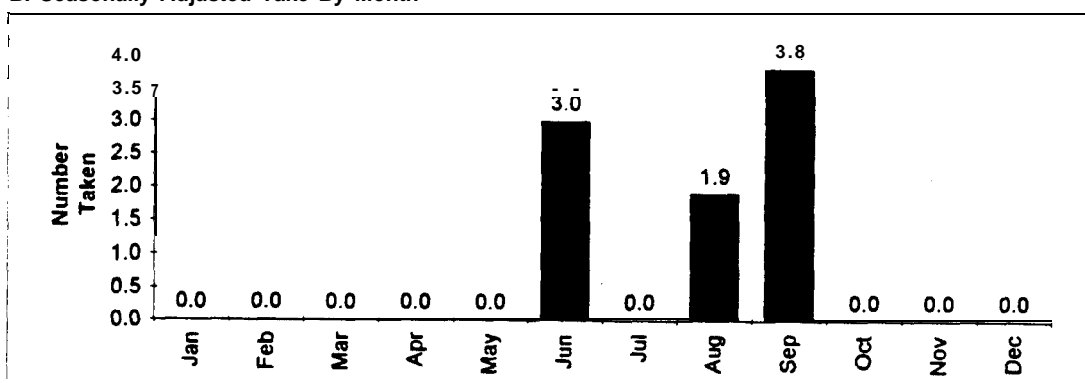


FIGURE 129. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: MANOKOTAK, 1992

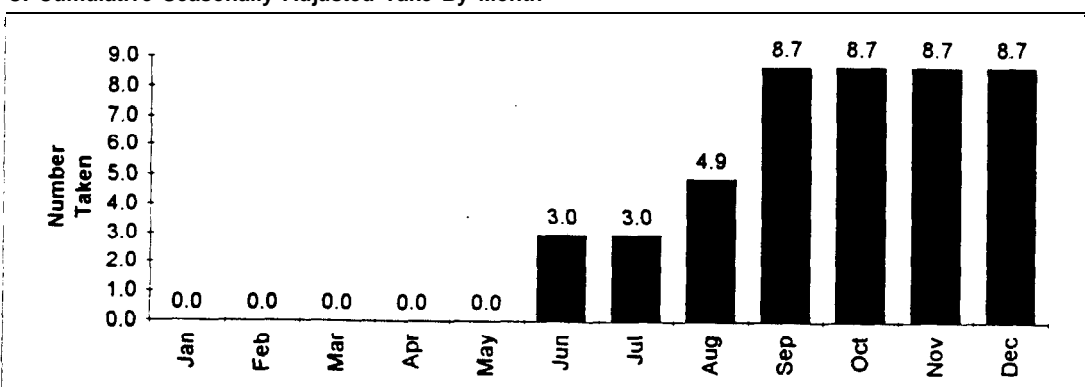
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1993.

TABLE 130. SPOTTED SEAL (*Phoca krgha*) HARVEST AND TAKE ESTIMATES: MANOKOTAK, 1992

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	20	57	77
Surveyed Households	20	30	50
Sampling Fraction	100.0%	52.6%	64.9%
Sample Household Members	93	144	237
Estimated Household Members	93.0	273.6	366.6

**SPOTTED SEAL HARVEST AND USE INFORMATION***Percent Of Native Households:*

Used 98.0%  
 Hunted 44.0%  
 Harvested 20.0%  
 Received 96.0%  
 Gave Away 38.0%

*Estimated Community Harvest and Take (Expanded):*

Total Number Harvested 25.1  
 Total Number Struck and Lost 1.0  
 Total Number Taken 26.1  
 Number Harvested Per Capita 0.07

SPOTTED SEAL HARVESTBY SEASON												Unknown		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	0	11	5	0	0	0	0	0	0	0	0	17
Struck and Lost	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total Take	0	1	0	12	5	0	0	0	0	0	0	0	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.0	0.0	18.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.1
Struckand Lost	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Take	0.0	1.0	0.0	19.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.0	0.0	18.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		25.1
Struck and Lost	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.0
Total Take	0.0	1.0	0.0	19.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		26.1
Total Take (%)	0.0%	3.8%	0.0%	73.6%	22.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	1.0	1.0	20.2	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1		
Cum. Take (%)	0.0%	3.0%	3 . 8 %	77.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

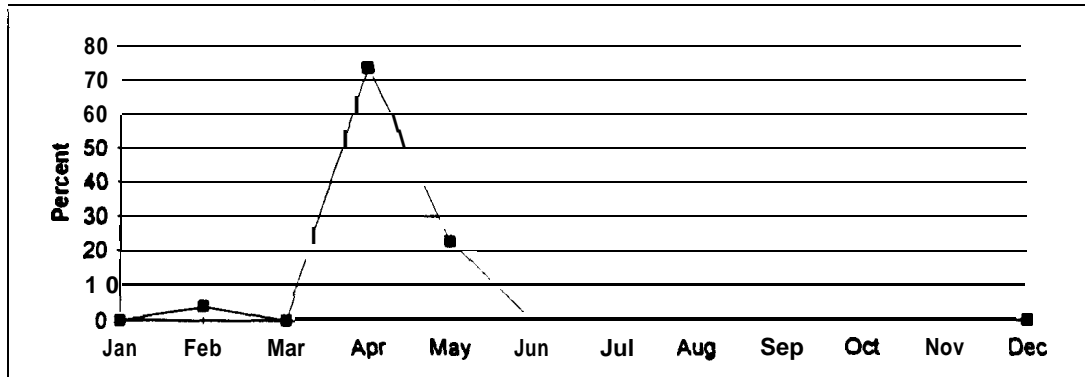
**SPOTTED SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	1	5.9%	1.0	4.0%
Adult Unknown Sex	11	64.7%	18.2	72.5%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	11.8%	2.0	8.0%
Pup Male	2	11.8%	2.0	8.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	5.9%	1.9	7.6%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	17	100.0%	25.1	100.0%

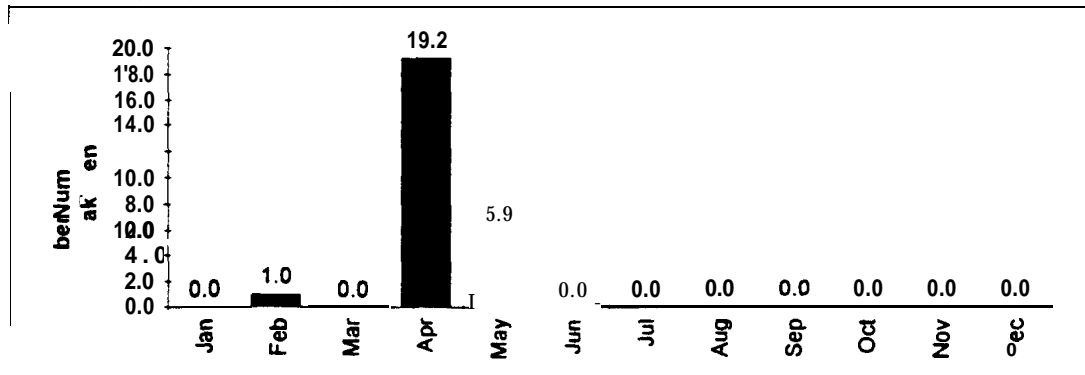
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council. 1993.

FIGURE 130. SPOTTED SEAL (*Phoca largha*) TAKE ESTIMATES: MANOKOTAK, 1992

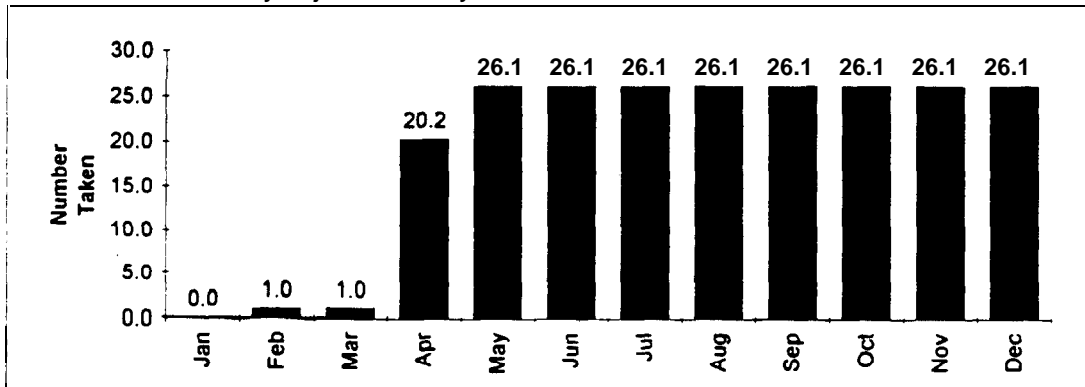
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 1993.

**TABLE 131. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: TOGIAC, 1992**

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	52	69	121
Surveyed Households	33	30	63
Sampling Fraction	63.5%	43.5%	52.1%
Sample Household Members	171	125	2%
Estimated Household Members	269.5	267.5	557.0

SEA LION HARVEST AND USE INFORMATION

Percent Of Native Households:

Used	9.5%
Hunted	3.2%
Harvested	3.2%
Received	7.9%
Gave Away	7.9%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	3.9
Total Number Struck and Lost	0.0
Total Number Taken	3.9
Number Harvested Per Capita	0.01

SEA LION HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	2	0	0	0	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3.9
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3.9
Total Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cumulative Take	0.0	0.0	0.0	0.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

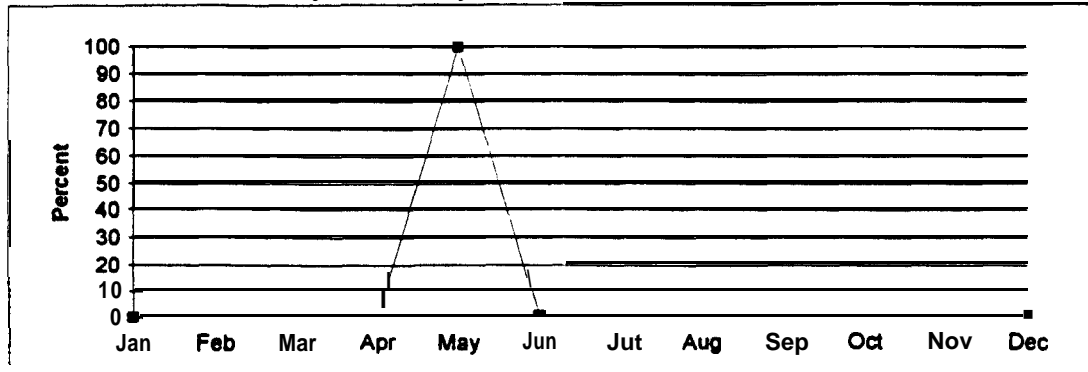
SEA LION HARVEST BY AGE AND SEX

	Reported By Sample Percent (Unexpanded)		Estimated By Community Percent (Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	2	100.0%	3.9	100.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	2	100.0%	3.9	100.0%

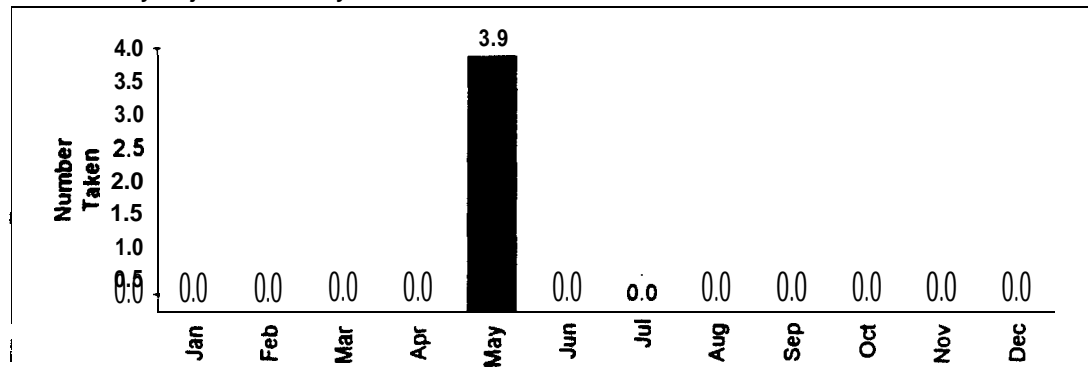
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council. 1993.

FIGURE 131. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: TOGIAK, 1992

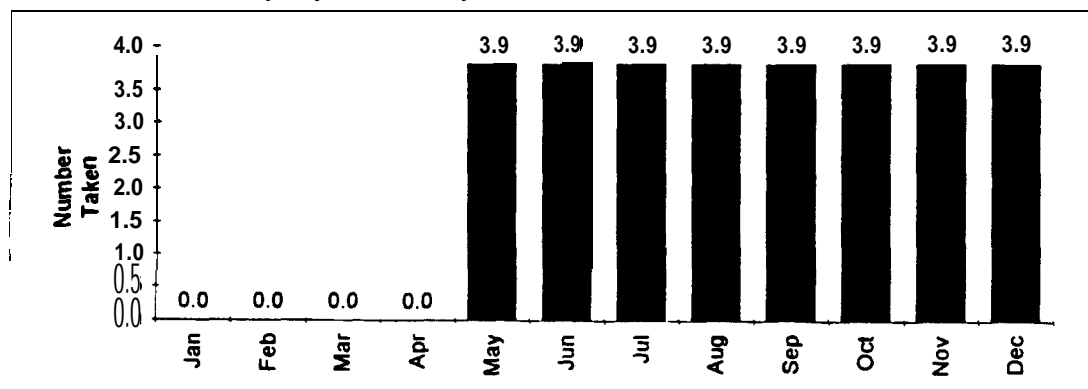
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council. 1993.

TABLE 132. HARBOR SEAL AND SPOTTED SEAL HARVEST AND TAKE ESTIMATES: TOGIAK. 1992

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	52	69	121
Surveyed Households	33	30	63
Sampling Fraction	63.5%	43.5%	52.1%
Sample Household Members	171	125	296
Estimated Household Members	269.5	287.5	557.0

## HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:

Used 93.7%  
 Hunted 71.4%  
 Harvested 63.5%  
 Received 60.3%  
 Gave Away 65.1%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested 274.6  
 Total Number Struck and Lost 55.7  
 Total Number Taken 330.3  
 Number Harvested Per Capita 0.49

## HARBOR SEAL HARVEST BY SEASON

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	6	36	36	26	4	0	2	8	21	6	0	6	160
Struck and Lost	1	0	7	1	0	0	0	1	0	9	6	0	7	34
Total Take	4	6	45	39	26	4	0	3	6	30	16	0	13	194
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.5	9.5	67.6	64.9	43.9	6.3	0.0	3.2	14.1	36.7	13.3	0.0	9.5	274.6
Struck and Lost	1.6	0.0	12.5	1.6	0.0	0.0	0.0	1.6	0.0	14.9	12.6	0.0	11.0	55.7
Total Take	7.0	9.5	60.3	66.5	43.9	6.3	0.0	4.7	14.1	51.6	25.9	0.0	20.5	330.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.6	9.6	70.3	67.3	45.4	6.5	0.0	3.3	14.6	36.0	13.6	0.0		274.6
Struck and Lost	2.0	0.0	15.6	2.0	0.0	0.0	0.0	2.0	0.0	16.6	15.7	0.0		xi.7
Total Take	7.6	9.6	65.6	69.2	45.4	6.5	0.0	5.2	14.6	56.6	29.5	0.0		330.3
Total Take (%)	2.3%	3.0%	26.0%	21.0%	13.6%	2.0%	0.0%	1.6%	4.4%	17.1%	6.9%	0.0%		100%
Cumulative Take	7.6	17.4	163.2	172.5	217.9	224.4	224.4	229.6	244.2	300.6	330.3	330.3		
Cum. Take (%)	2.3%	5.3%	31.2%	52.2%	66.0%	67.9%	67.9%	69.5%	73.9%	91.1%	100.0%	100.0%		

## HARBOR SEAL HARVEST BY AGE AND SEX

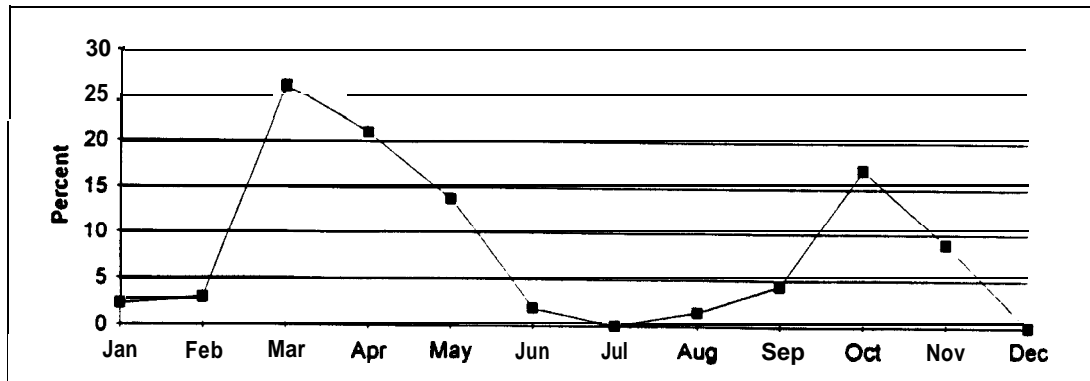
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	33	20.6%	56.3	20.5%
Adult Female	18	11.3%	32.0	11.6%
Adult Unknown Sex	39	24.4%	68.0	24.8%
Juvenile Male	9	5.6%	14.2	5.2%
Juvenile Female	9	5.6%	14.2	5.2%
Juvenile Unknown Sex	44	27.5%	76.6	27.9%
Pup Male	1	0.6%	2.3	0.8%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	5	3.1%	7.9	2.9%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	2	1.3%	3.2	1.1%
Total	160	100.0%	274.6	100.0%

SOURCE:

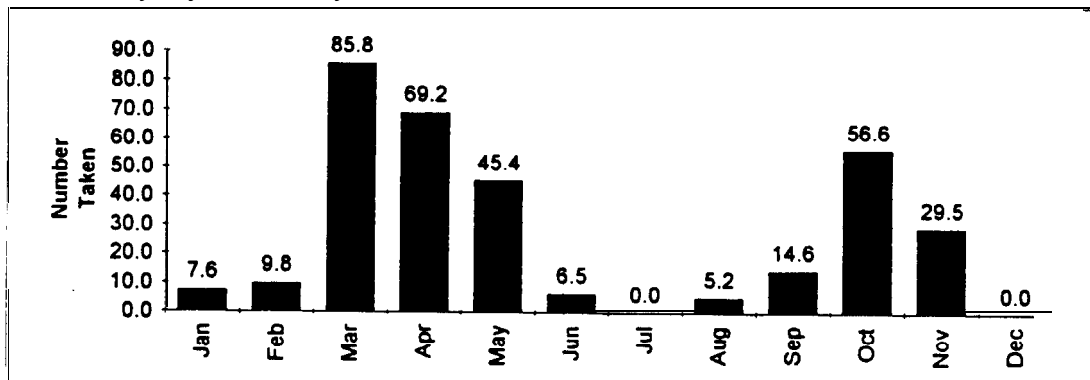
Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1993.

FIGURE 132. HARBOR SEAL AND SPOTTED SEAL TAKE ESTIMATES: TOGIK, 1992

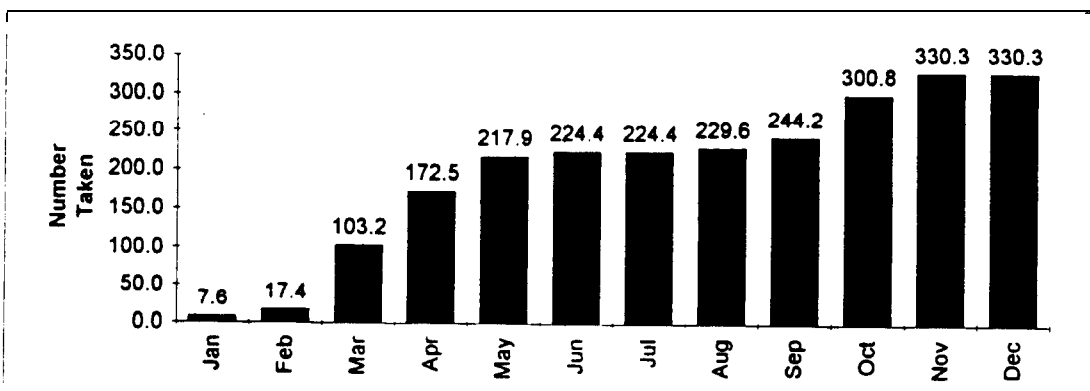
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1993.

**TABLE 133. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: TOGIAK, 1992**

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	52	69	121
Surveyed Households	33	30	63
Sampling Fraction	63.5%	43.5%	52.1%
Sample Household Members	171	125	296
Estimated Household Memben	269.5	287.5	557.0

**HARBOR SEAL HARVEST AND USE INFORMATION**

**Percent Of Native Households:**  
 used 93.7%  
 Hunted 71.4%  
 Harvested 63.5%  
 Received 60.3%  
 Gave Away 65.1%

**Estimated Community Harvest and Take (Expanded):**  
 Total Number Harvested 23.5  
 Total Number Struck and Lost 1.6  
 Total Number Taken 25.1  
 Number Harvested Per Capita 0.04

**HARBOR SEAL HARVEST BY SEASON**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	4	0	2	6	0	0	0	0	14
Struck and Lost	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total Take	0	0	0	0	0	4	0	3	6	0	0	0	0	15
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	6.3	0.0	3.2	14.1	0.0	0.0	0.0	0.0	23.5
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6
Total Take	0.0	0.0	0.0	0.0	0.0	6.3	0.0	4.7	14.1	0.0	0.0	0.0	0.0	25.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	6.3	0.0	3.2	14.1	0.0	0.0	0.0	0.0	23.5
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6
Total Take	0.0	0.0	0.0	0.0	0.0	6.3	0.0	4.7	14.1	0.0	0.0	0.0	0.0	25.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	25.1%	0.0%	16.6%	56.0%	0.0%	0.0%	0.0%	0.0%	100%
Cumulative Take	0.0	0.0	0.0	0.0	0.0	6.3	6.3	11.0	25.1	25.1	25.1	25.1	25.1	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	25.1%	25.1%	44.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

**HARBOR SEAL HARVEST BY AGE AND SEX**

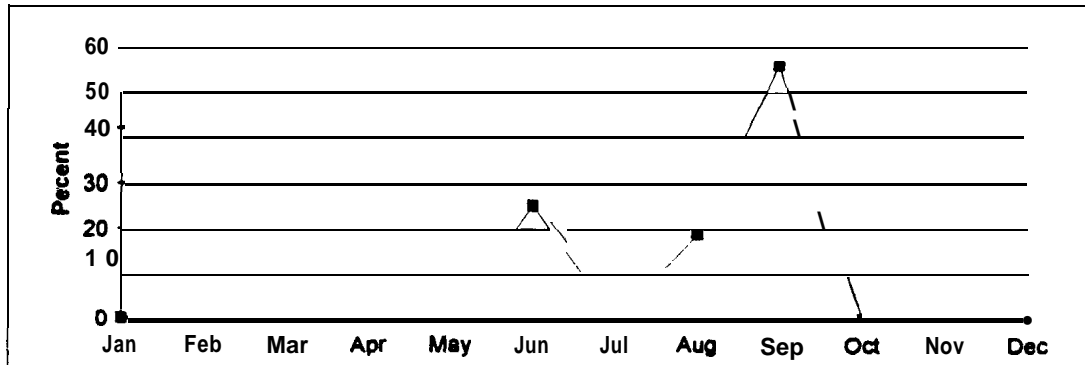
	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	4	28.6%	7.0	29.9%
Adult Female	2	14.3%	3.2	13.4%
Adult Unknown Sex	4	28.6%	7.0	29.8%
Juvenile Male	1	7.1%	1.6	6.7%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	14.3%	3.2	13.4%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	1	7.1%	1.6	6.7%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%
Total	14	100.0%	23.5	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1993.

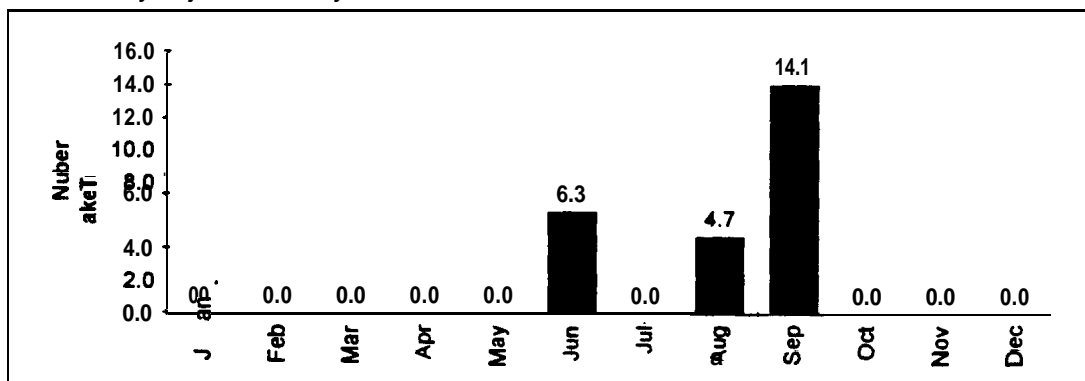


**FIGURE 133. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: TOGIAC, 1992**

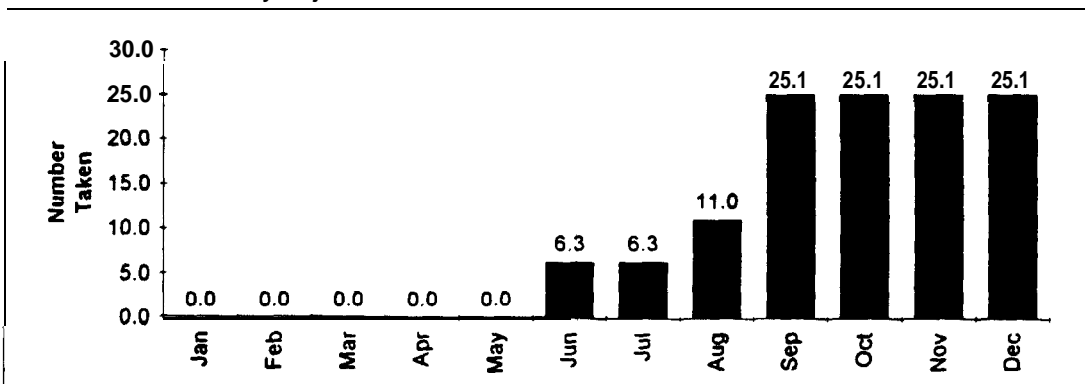
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1993.

**TABLE 134. SPOTTED SEAL (*Phoca largha*) HARVEST AND TAKE ESTIMATES: TOGIAK, 1992**

SAMPLING DESIGN: TWO STRATA

	Active	Other	Total
Total Native Households	52	69	121
Surveyed Households	33	30	83
Sampling Fraction	83.5%	43.5%	52.1%
Sample Household Members	171	125	298
Estimated Household Memben	289.5	287.5	557.0

**SPOTTED SEAL HARVEST AND USE INFORMATION**

**Percent Of Native Households:**  
 used 93.7%  
 Hunted 71.4%  
 Harvested 83.5%  
 Received 80.3%  
 Gave Away 85.1%

**Estimated Community Harvest and Take (Expanded):**  
 Total Number Harvested 251.1  
 Total Number Struck and Lost 54.2  
 Total Number Taken 305.2  
 Number Harvested Per Capita 0.45

SPOTTED SEAL HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	TOW
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	6	38	38	26	0	0	0	0	21	8	0	6	146
Struck and Lost	1	0	7	1	0	0	0	0	0	9	6	0	7	33
Total Take	4	6	45	39	26	0	0	0	0	30	16	0	13	179
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.5	9.5	67.6	64.9	43.9	0.0	0.0	0.0	0.0	36.7	13.3	0.0	9.5	251.1
Struck and Lost	1.6	0.0	12.5	1.6	0.0	0.0	0.0	0.0	0.0	14.9	12.6	0.0	11.0	54.2
Total Take	1.0	9.5	80.3	66.5	43.9	0.0	0.0	0.0	0.0	51.6	25.9	0.0	20.5	365.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.7	9.8	70.5	67.5	45.6	0.0	0.0	0.0	0.0	36.1	13.9	0.0		251.1
Struck and Lost	2.0	0.0	15.7	2.0	0.0	0.0	0.0	0.0	0.0	16.7	15.6	0.0		54.2
Total Take	7.6	9.8	66.2	69.5	45.6	0.0	0.0	0.0	0.0	56.9	29.7	0.0		305.2
Total Take (%)	2.5%	3.2%	26.2%	22.8%	14.9%	0.0%	0.0%	0.0%	0.0%	16.6%	9.7%	0.0%		100%
Cumulative Take	7.6	17.5	103.6	173.1	216.7	216.7	216.7	216.7	216.7	275.6	305.2	305.2		
Cum. Take (%)	2.5%	5.7%	34.0%	56.7%	71.6%	71.6%	71.6%	71.6%	71.6%	90.3%	100.0%	100.0%		

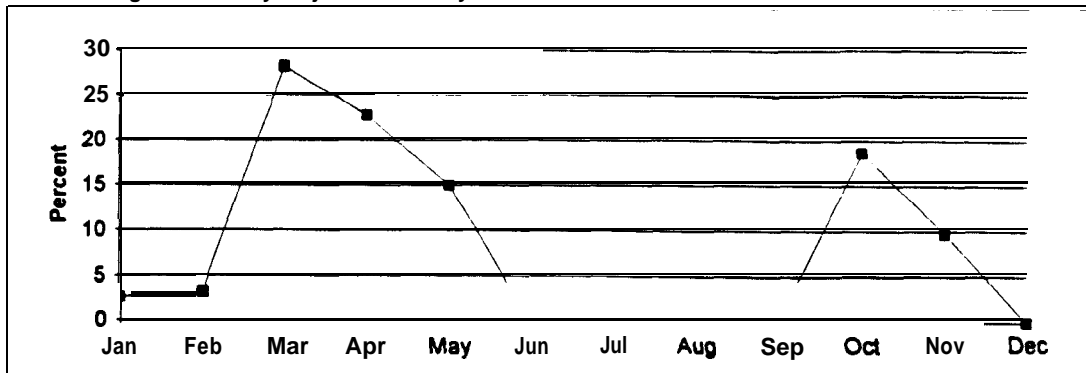
**SPOTTED SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	29	19.9%	49.3	19.8%
Adult Female	18	11.0%	28.8	11.5%
Adult Unknown Sex	35	24.0%	80.9	24.3%
Juvenile Male	8	5.5%	12.8	5.0%
Juvenile Female	9	8.2%	14.2	5.6%
Juvenile Unknown Sex	42	28.8%	73.4	29.2%
Pup Male	1	0.7%	2.3	0.9%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	4	2.7%	8.3	2.5%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	2	1.4%	3.2	1.3%
Total	148	100.0%	251.1	100.0%

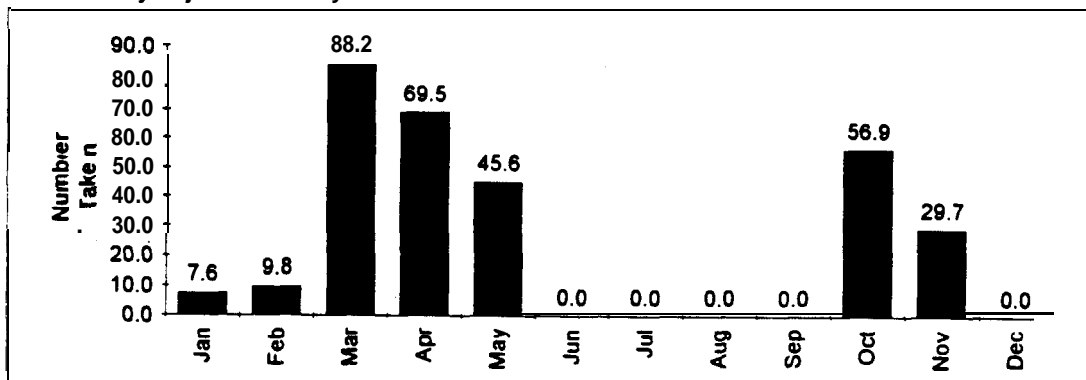
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1993.

FIGURE 134. SPOTTED SEAL (*Phoca largha*) TAKE ESTIMATES: TOGIAK, 1992

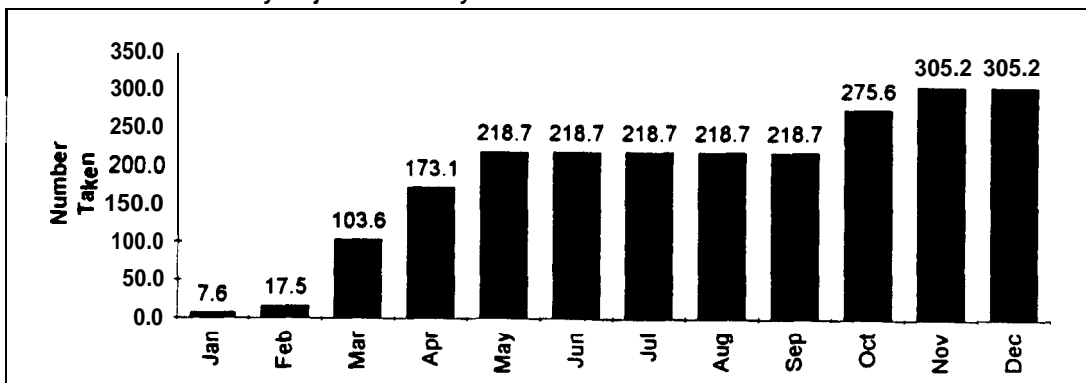
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 1993.



## LAKE ILIAMNA

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TABLE 135. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: ILIAMNA, 1992

## SAMPLING DESIGN: CENSUS

Total Native Households	20
Surveyed Households	15
Sampling Fraction	75.0%
Sample Household Members	59
Estimated Household Members	78.7

## SEA LION HARVEST AND USE INFORMATION

## Percent Of Native Households:

Used	8.7%
Hunted	8.7%
Harvested	8.7%
Received	0.0%
Gave Away	8.7%

## Estimated Community Harvest and Take (Expanded):

Total Number Harvested	1.3
Total Number Struck and Lost	0.0
Total Number Taken	1.3
Number Harvested Per Capita	0.02

SEA LION HARVEST BY SEASON													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	1	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.3
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.3
Total Take(%)	8.3%	6.3%	8.3%	6.3%	6.3%	8.3%	6.3%	8.3%	8.3%	8.3%	8.3%	8.3%		100%
Cumulative Take	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3		
Cum. Take(%)	8.3%	16.7%	25.0%	33.3%	41.7%	50.0%	58.3%	66.7%	75.0%	83.3%	91.7%	100.0%		

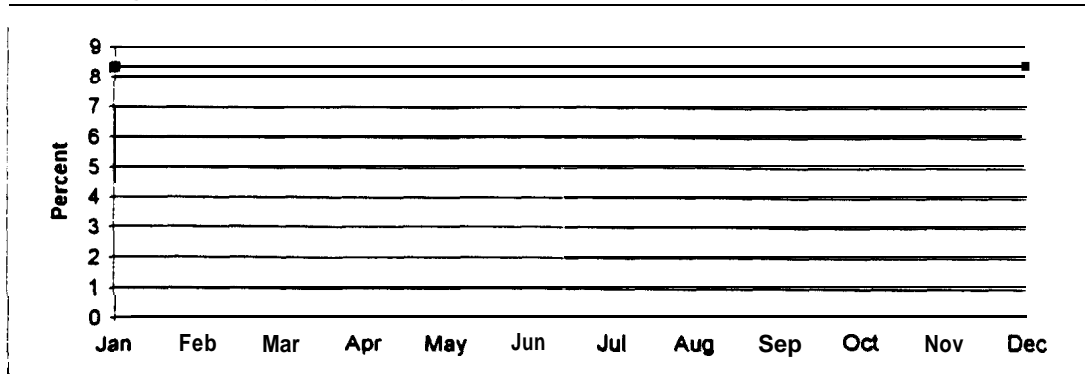
## SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	100.0%	1.3	100.0%
Total	1	100.0%	1.3	100.0%

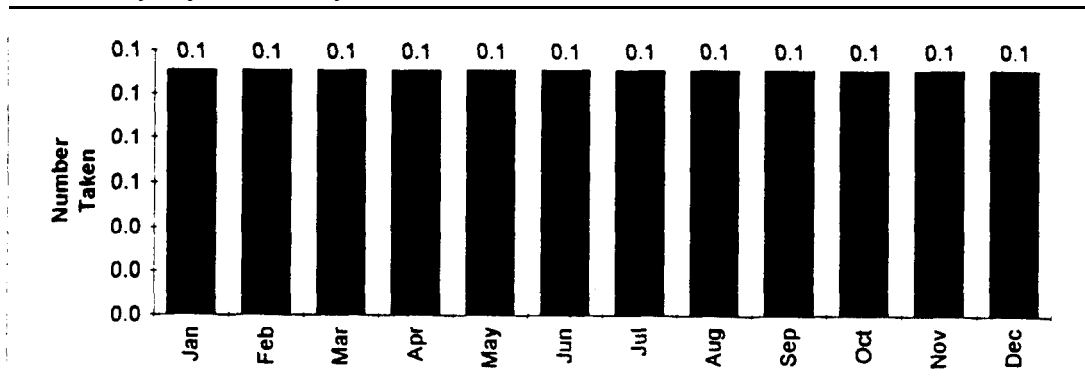
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Iliamna Village Council, 1993.

FIGURE 135. SEA LION (*Eumetopias jubatus*) TAKE ESTIMATES: ILIAMNA, 1992

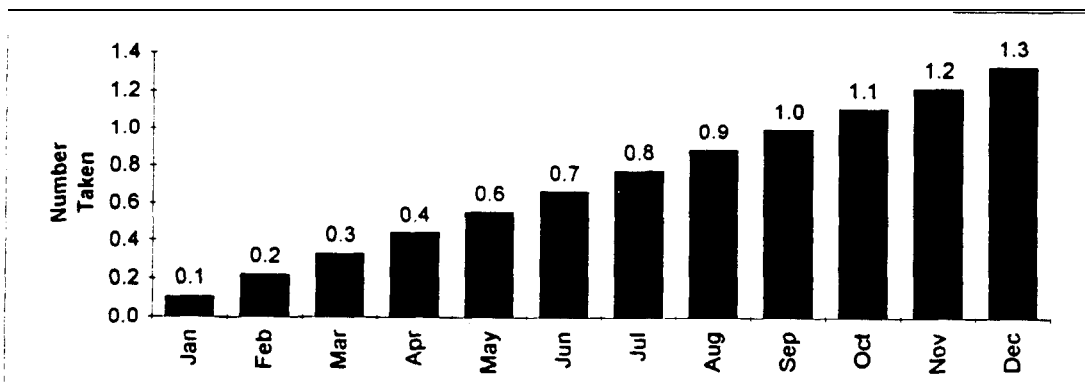
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Iliamna Village Council, 1993.

TABLE 136. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: ILIAMNA, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	20
Surveyed Households	15
Sampling Fraction	75.0%
Sample Household Members	59
Estimated Household Members	76.7

## HARBOR SEAL HARVEST AND USE INFORMATION

Percent Of Native Households:  
used 60.0%

Hunted 33.3%  
Harvested 20.0%  
Received 40.0%  
Gave Away 20.0%

Estimated Community Harvest and Take (Expanded):

Total Number Harvested	10.7
Total Number Struck and Lost	0.0
Total Number Taken	10.7
Number Harvested Per Capita	0.14

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	8	8
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	8	8
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	10.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	10.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.9	0.0	0.9	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9		10.7
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.0	0.0		10.7
Total Take (%)	6.3%	8.3%	8.3%	8.3%	6.3%	0.3%	6.3%	8.3%	8.3%	6.3%	8.3%	6.3%		100%
Cumulative Take	0.0	1.8	2.7	3.6	4.4	6.3	6.2	7.1	8.0	8.9	0.8	10.7		
Cum Take (%)	6.3%	16.7%	25.0%	33.3%	41.7%	50.0%	66.3%	66.7%	75.0%	63.3%	01.7%	100.0%		

## HARBOR SEAL HARVEST BY AGE AND SEX

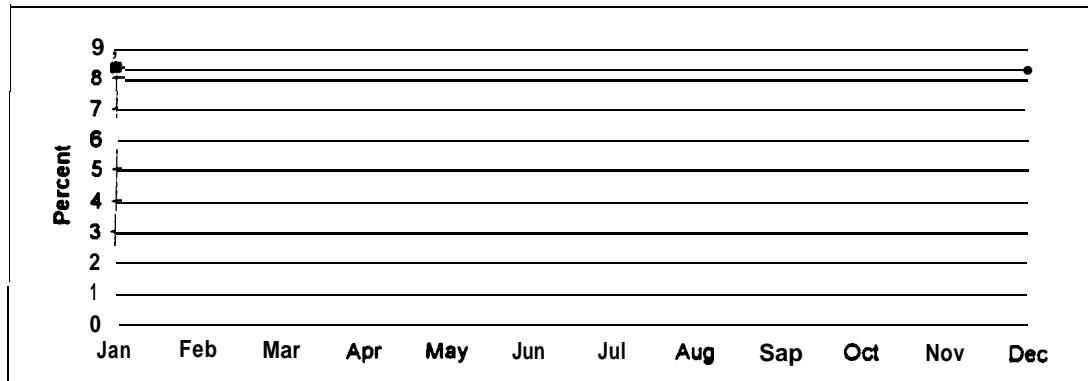
	Reported By Sample (Unexpanded)	Percent	Estimated By Community (Expanded)	Percent
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%
Unknown Sex and Age	8	100.0%	10.7	100.0%
Total	8	100.0%	10.7	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Iliamna Village Council, 1993.

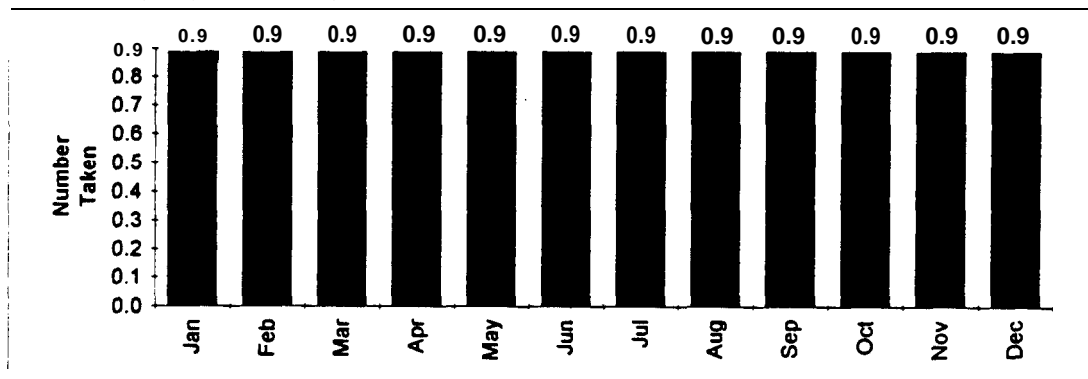


FIGURE 136. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: ILIAMNA, 1992

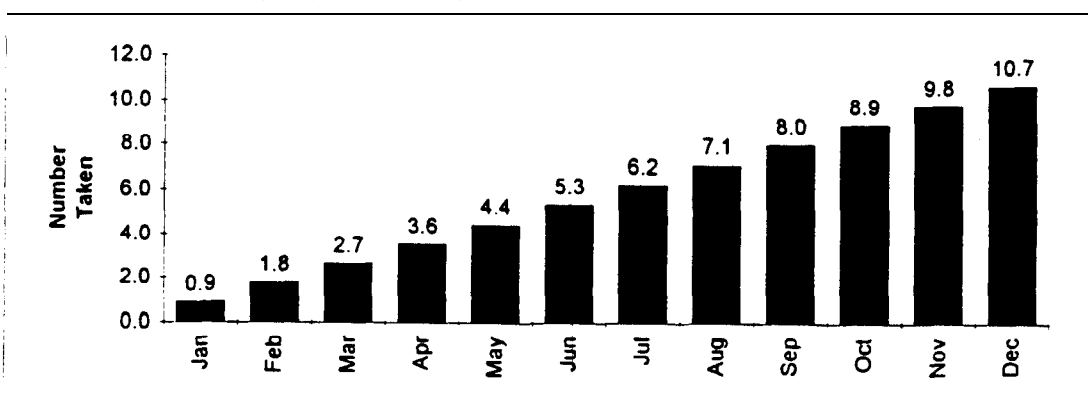
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted lake By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Iliamna Village Council, 1993.

TABLE 137. SEA LION (*Eumetopias jubatus*) HARVEST AND TAKE ESTIMATES: NEWHALEN, 1992

SAMPLING DESIGN: CENSUS

Total Native Households	32
Surveyed Households	26
Sampling Fraction	81.3%
Sample Household Members	128
Estimated Household Members	157.5

## SEA LION HARVEST AND USE INFORMATION

**Percent Of Native Households:**

used	0.0%
Hunted	0.0%
Harvested	0.0%
Received	0.0%
Gave Away	0.0%

**Estimated Community Harvest and Take (Expanded):**

Total Number Harvested	0.0
Total Number Struck and Lost	0.0
Total Number Taken	0.0
Number Harvested Per Capita	0.00

SEA LION HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOW Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Tekr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Teke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	—	—	—	—	—	—	—	—	—	—	—	—		—
Cumulative Teke	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

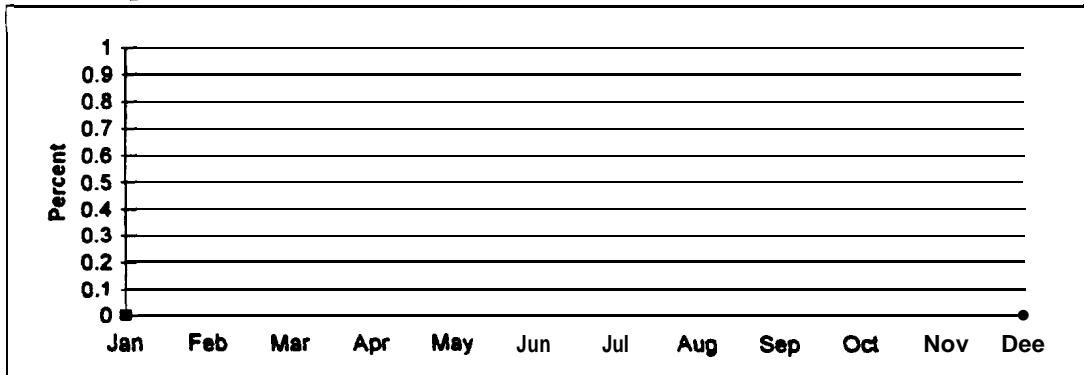
## SEA LION HARVEST BY AGE AND SEX

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	---	0.0	---
Adult Female	0	---	0.0	---
Adult Unknown Sex	0	--	0.0	--
Juvenile Male	0	--	0.0	---
Juvenile Female	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	--
Pup Male	0	---	0.0	---
Pup Female	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---
Male Unknown Age	0	---	0.0	--
Female Unknown Age	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---
Total	0	--	0.0	---

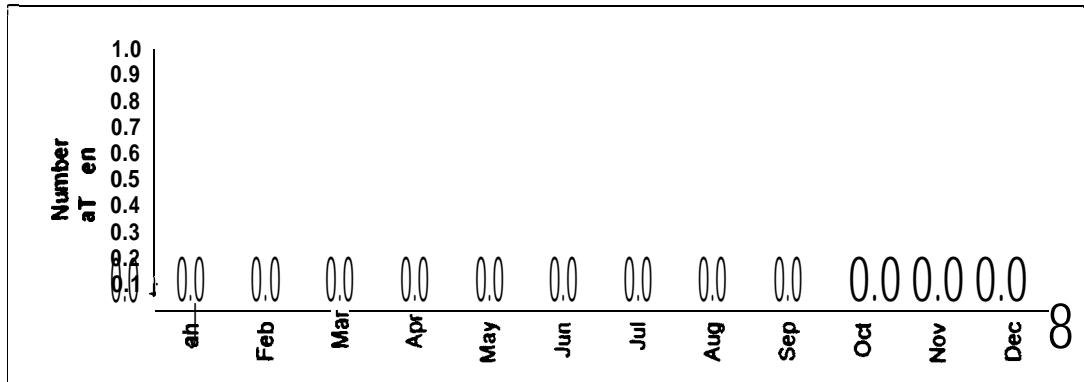
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Newhalen Traditional Council, 1993.

FIGURE 137. SEA LION (*Eumetopka jubatus*) TAKE ESTIMATES: NEWHALEN, 1992

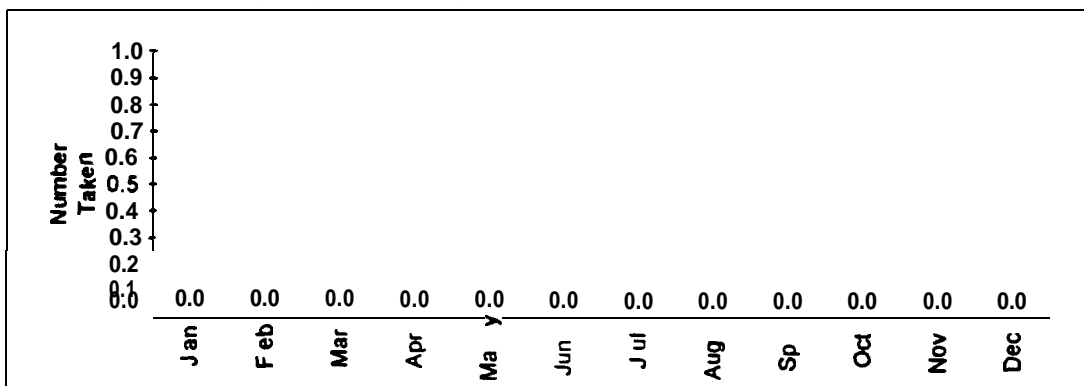
A. Percentage Seasonally Adjusted Take By Month



B. Seasonally Adjusted Take By Month



C. Cumulative Seasonally Adjusted Take By Month



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Newhalen Traditional Council, 1993.

**TABLE 139. HARBOR SEAL (*Phoca vitulina*) HARVEST AND TAKE ESTIMATES: NEWHALEN, 1992**

**SAMPLING DESIGN: CENSUS**

Total Native Households	32
Surveyed Households	26
Sampling Fraction	81.3%
Sample Household Members	128
Estimated Household Members	157.5

**HARBOR SEAL HARVEST AND USE INFORMATION**

*Percent Of Native Households:*  
 used 61.5%  
 Hunted 34.0%  
 Harvested 30.8%  
 Received 38.5%  
 Gave Away 19.2%

*Estimated Community Harvest and Take (Expanded):*  
 Total Number Harvested 23.4  
 Total Number Strunk and Lost 0.0  
 Total Number Taken 23.4  
 Number Harvested Per Capita 0.15

HARBOR SEAL HARVEST BY SEASON													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	19	19
Struck and Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	19	19
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	23.4
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	23.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9		23.4
Struck and Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9		23.4
Total Take (%)	8.3%	8.3%	6.3%	0.3%	8.3%	8.3%	8.3%	8.3%	5.3%	8.3%	0.3%	8.3%		100%
Cumulative Take	1.9	3.9	5.8	7.0	9.7	11.7	13.6	15.6	17.5	19.5	21.4	23.4		
Cum. Take (%)	0.3%	16.7%	25.0%	33.3%	41.7%	50.0%	58.3%	66.7%	75.0%	83.3%	91.7%	100.0%		

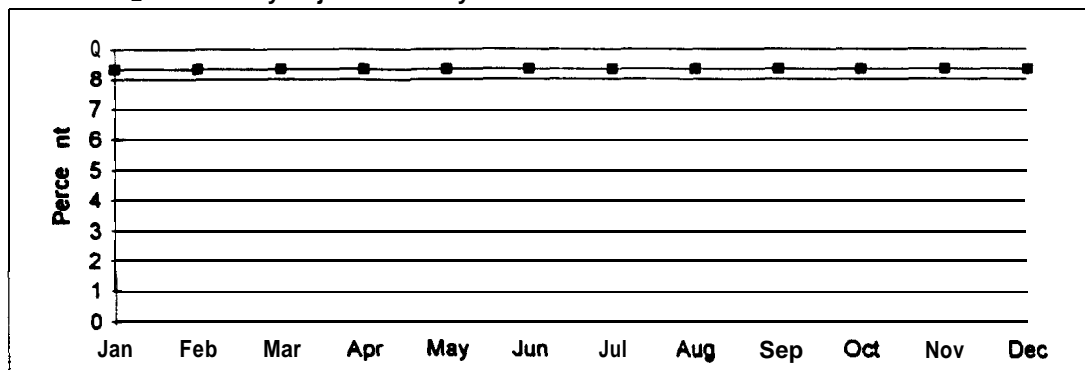
**HARBOR SEAL HARVEST BY AGE AND SEX**

	Reported		Estimated	
	By Sample	Percent	By Community	Percent
	(Unexpanded)		(Expanded)	
Adult Male	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%
Male Unknown Age	11	57.9%	13.5	57.9%
Female Unknown Age	4	21.1%	4.9	21.1%
Unknown Sex and Age	4	21.1%	4.9	21.1%
Total	19	100.0%	23.4	100.0%

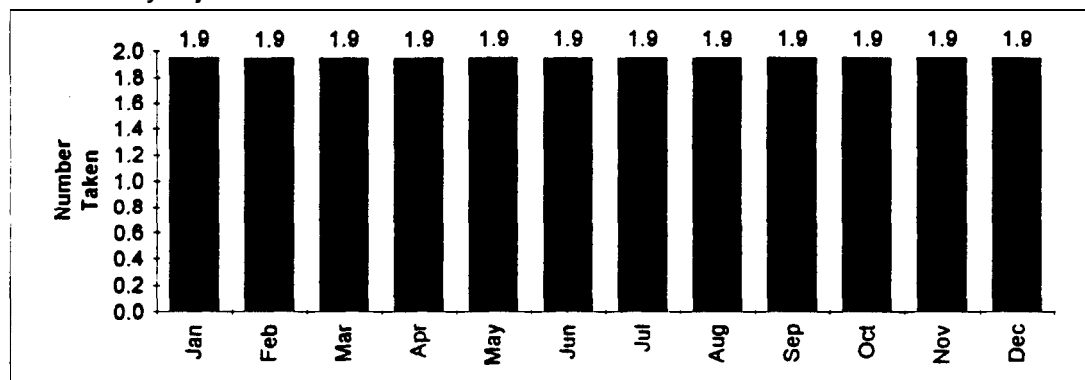
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Newhalen Traditional Council, 1993.

**FIGURE 138. HARBOR SEAL (*Phoca vitulina*) TAKE ESTIMATES: NEWHALEN, 1992**

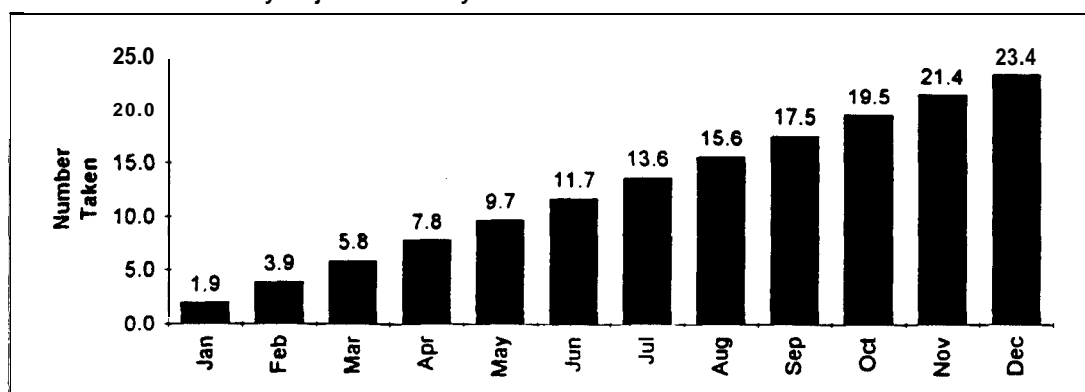
**A. Percentage Seasonally Adjusted Take By Month**



**B. Seasonally Adjusted Take By Month**



**C. Cumulative Seasonally Adjusted Take By Month**



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Newhalen Traditional Council, 1993.

